

**UNITED NATIONS ENVIRONMENT PROGRAMME**

**ENVIRONMENT ASSESSMENT PROGRAMME**

---

**TECHNICAL REPORT**

**A SURVEY OF GEOGRAPHIC INFORMATION SYSTEM  
AND IMAGE PROCESSING SOFTWARE 1995**



**UNITED NATIONS ENVIRONMENT PROGRAMME**



UNEP



## FOREWORD

GRID, the Global Resource Information Database, was established in 1985 as a part of the environmental assessment activities of the United Nations Environment Programme (UNEP). GRID is dedicated to making environmental information more readily accessible to environmental analysts as well as international and national decision makers. Besides acquiring and disseminating integrated, spatially-referenced environmental data, GRID provides decision support services to environmental analysts and decision makers worldwide, and fosters the use of Geographic Information System (GIS) and satellite Image Processing (IP) as tools for environmental analysis.

In order to assist resource managers and environmental planners in selecting and procuring GIS and IP software systems, GRID conducts a worldwide biennial survey of GIS and IP software systems. This survey was conducted in 1991 and 1993, and the results were published and distributed freely among UN organizations, international aid agencies, national governments, and other organizations interested in GIS and IP technologies. In keeping with the original intent of providing current, updated information, the survey was repeated in 1995 and the results are presented here.

The survey was conducted by Caroline Fenno. Gene Fosnight, Dawn Buehner, LuAnne Pfeifle and Linda Black provided support in compiling and finalizing this report. An electronic version of the report is available on the Internet at the following address: <http://grid2.cr.usgs.gov/grid/grid.html>. The support provided by the National Aeronautics and Space Administration (NASA) and the United States Geological Survey (USGS), EROS Data Center, is gratefully acknowledged.

Ashbindu Singh  
Regional Coordinator  
UNEP Environment Assessment Programme  
for North America

## **DISCLAIMERS**

Mention of a commercial company or product in this report does not imply endorsement by the United Nations Environment Programme. The use of information from this publication concerning proprietary products for publicity or advertising purposes is not permitted.

Trademark names and symbols are used in an editorial fashion with no intention of infringement or trademark or copyright laws.

We regret any errors or omissions that we may have unwittingly made.

Opinions expressed in this document are not necessarily those of the United Nations Environment Programme.

## TABLE OF CONTENTS

	<u>Page Number</u>
1. INTRODUCTION .....	1
2. OBJECTIVES AND SCOPE OF SURVEY .....	3
3. SURVEY METHODOLOGY .....	4
4. RESULTS OF THE SURVEY .....	4
5. SURVEY FINDINGS/OBSERVATIONS .....	5
6. CONCLUSIONS .....	9
SUMMARY TABLE: 1995 RESPONSES .....	11
APPENDIX A: 1995 AND 1993 GIS & IP INSTALLATIONS .....	17
APPENDIX B: COMPLEMENTARY PRODUCTS .....	21
APPENDIX C: QUESTIONNAIRE .....	25
APPENDIX D: SURVEY RESPONSES .....	33



# 1 . INTRODUCTION

## 1.1 Geographic Information Systems (GIS)

The concepts behind GIS technology were developed decades ago in the use of transparent map overlays for examining spatial relationships between features on maps of differing thematic emphasis. The use of computers for processing map data was pioneered at the Harvard School of Landscape Design during the mid 1970s.

The development of GIS marks a major transition in the use of computers for processing data. Computers were invented to process numbers and solve mathematical problems. Shortly thereafter techniques of encoding letters as sequences of numbers allowed computers to be able to process words and documents. The advent of GIS was marked by the development of methods for modeling and manipulating spatial information and relationships using computers. Early GIS software was developed on mainframe computers. With the increased speed, sophistication, and storage capacities of computers—especially minicomputers, workstations, and personal computers—GIS software has been migrating to more accessible levels of technology. Thus, GIS capabilities are now within reach of anyone who has work to do that involves the manipulation and/or analysis of spatial data.

Even though GIS technologies have been evolving for nearly 30 years, an agreed upon definition of GIS still eludes us. Probably the best definitions are sufficiently broad to allow for substantial latitude in interpretation. All GIS professionals recognize that, to be a GIS, a system must handle spatial data. However, more elaborate definitions such as a computer-based information system that allows capture, verification, storage, retrieval, analysis, update, and output of data which are spatially referenced to the Earth (geo-referenced), may help to clarify (slightly) what a GIS might be.

The basic hardware elements of a GIS include (1) a spatial data input device such as digitizing tablet or raster scanner; (2) a central processing unit (CPU); (3) a visual display device for interaction and visual analysis; (4) disk storage capability for data storage; and (5) an output device such as plotter or printer. In addition to having the software necessary for manipulating, searching, and analyzing spatial data, a GIS must also include software for driving the input and output devices listed above.

In this context, some general functional capabilities of GIS typically include map digitizing, digital map editing, topological structuring, map display and query, map projection, network flow analysis, vector overlay analysis, buffer generation, cell-based modeling, surface modeling, map composition, and hardcopy output.

Because of the general emphasis of GIS on the processing, manipulation, and analysis of spatial data, and because so many human activities occur and have effects in the spatial domain, GIS technologies are applied in a wide variety of fields such as agriculture, land use planning, wildlife conservation, forestry management, fisheries, geology, archeology, hydrology, urban planning, environmental management and monitoring, climate change studies, and others. Since most environmental and natural resource data have locational references, GIS technologies have enormous potential in facilitating sound management of natural resources and the environment.

## 1.2 Image Processing Systems

Interest in digital image processing can be traced back to the 1920s when digitized pictures of world events were first transmitted by submarine cable between New York and London. However, it was

not until the 1960s that applications of digital image processing techniques became widespread. This decade was marked by substantial increases in digital computing capacities and the establishment of the U.S. space program. This combination of events led to rapid growth in the development of systems for processing the imagery that was coming out of the space program. Since then, the continued exponential increases in speed and storage capacities of computers has greatly accelerated improvements in accessibility, performance, and sophistication of image processing systems.

As with GIS, image processing systems work with data that have a substantial spatial component. The spatial information in images is, however, not explicitly encoded in the data. Rather, it is inferred from the proximate relationships of the picture elements (pixels) to each other. The capabilities for processing image data are now also within reach of anyone who has serious work that involves the manipulation of digital image representations of real world phenomena.

The definition of an image processing system is probably even less clear than that of a GIS, as the applications of image processing are even more broad. Image processing applications cover the spectrum ranging from handwritten character recognition to land cover mapping. For purposes of this survey, however, an implicit assumption was made to constrain the definition of image processing systems. Image processing systems in this context must have been designed primarily to manipulate and analyze image data derived from earth-looking satellite or airborne sensors.

At the heart of any image processing system is the computer's central processing unit. Special purpose computers have been built that contain array processors for performing parallel computations. However, most readily available image processing software has been targeted towards more general purpose computer platforms such as workstations and personal computers. Other hardware components of a complete image processing system include (1) an input device such as a tape or disk drive; (2) a display device for interaction and visual analysis; (3) vast quantities of disk storage capacity as images can get very large; and (4) an output device such as a plotter or printer. The final component of an image processing system is the software that drives all of these devices and performs the various image manipulation algorithms used to aid in the extraction of information from the image data.

In this context, some general functional capabilities of image processing systems typically include interactive display, image enhancement, geometric rectification, spatial filtering, image mosaicking, fourier analysis, radiometric corrections, multi-variate analysis, raster-gis modeling, radar geocoding and analysis, image annotation, and hardcopy output.

Digital image processing techniques have been and are being used in a variety of applications including geology, petroleum exploration, archeology, physics, astronomy, biology, nuclear medicine, electron microscopy, law enforcement, defense, natural resource monitoring, environmental assessment, and others. The applicability of image processing technologies for monitoring, mapping, and managing natural resources and for monitoring various environmental phenomena using satellite derived imagery cause these technologies to be of particular interest to environmental and natural resource agencies and institutions.

### **1.3 Other Spatial Data Systems**

While this survey was intended to focus on GIS and IP systems, it was anticipated that some of those surveyed would offer products in one of the closely related fields of Automated Mapping and Facilities Management (AM/FM) or Computer Aided Design (CAD). Both are closely related to GIS, but are much more limited in scope and application.



AM/FM systems are generally less sophisticated than full scale GISs in their capabilities for manipulating spatial data and analyzing relationships between elements. AM/FM systems are often used by utility companies to record and keep track of power lines, gas lines, valves, meters, land, etc. One of their primary purposes is to make the task of producing maps of facilities easier. The more sophisticated systems allow for modeling connectivity and flow, among other things.

While CAD systems are used to model entities that occur in space, the geometric nature of these entities is generally far more simple than many of the real world phenomena that are modeled in a GIS. CAD systems typically deal with geometry that contains many horizontal and vertical lines, regular angles, circular and other smooth curves, etc. GIS systems, on the other hand, deal with lines of a fractal nature, such as coastlines and contours. And in terms of spatial relationships, topology is more important in GIS than in CAD.

Thus, while the similarities between GIS, AM/FM, and CAD are many, the differences are also quite significant. It is important that the reader be aware of these differences, when trying to match a system to both present and anticipated future needs.

## 2. OBJECTIVES AND SCOPE OF SURVEY

The objectives of this survey are much the same as they were in 1993: to provide potential users of GIS and IP software with basic information about what systems are available, something about the capabilities of these systems, and to provide references for obtaining more detailed information on the various systems. It is intended to be somewhat of an introductory “buyers-guide” to GIS and IP software systems. An additional objective was to do a comparative analysis between years in an attempt to identify trends or advances in the GIS and IP software industries. This survey is not unique in this regard. Others have and will continue to perform similar surveys and produce similar reports. Examples include:

**“A survey of Geographic Information Systems - for natural resources decision making, 1987,”** The American Farmland Trust, Washington, D.C.

**“Directory of Geographic Information Systems and Related Products and Services 1990,”** Earth Observation Satellite Company (EOSAT), Maryland, U.S.A.

**“The 1995 International GIS Sourcebook”** (updated annually since 1989), GIS World, Ft. Collins, Colorado, U.S.A.

However, audiences for each of these tend to be quite different, and most publications are not readily available to environmental agencies and institutions in developing countries.

## 3. SURVEY METHODOLOGY

The questionnaire was slightly reformatted for the 1995 survey, and it was mailed to 332 companies and institutions in 28 countries that were believed to be distributing either GIS, IP, or related software systems. The list of survey recipients was derived from a list of vendors used for the 1993 survey with additions from the 1995 International GIS World Sourcebook's listing of software vendors and a few additions from personal contacts within the GRID system. The questionnaire was also designed in HyperText Markup Language (HTML) so that respondents could view and respond to

it on the World Wide Web (WWW) at Uniform Resource Locator (URL) <http://grid2.cr.usgs.gov/grid/survey.html>. The WWW page was created to increase the level of participation or response rate among the recipients of the questionnaire by providing another means to participate in the survey.

As in 1993, the questionnaire was designed to elicit information about the general characteristics, operating environments, supported peripherals, and functional capabilities of the software systems. It was designed with the idea that developing country personnel would be the primary consumers of the information being collected, and at the same time keeping in mind that the survey should be as little of an inconvenience as possible to those who are tasked with completing the questionnaire. A copy of the questionnaire has been included in Appendix B.

Of the 332 organizations to whom the questionnaire was sent, 64 organizations responded without any extra prompting. In addition, four companies which were *not* on our mailing list noticed our survey on the WWW and responded to it. However, about 66% of the organizations that responded in 1993 did not respond in 1995. In the interest of doing a comparative analysis between the 1995 and 1993 results, some extra effort was made to encourage a response from these particular recipients. A simple reminder along with another copy of the questionnaire was faxed to these organizations after the stated deadline for responding had past. This extra effort resulted in only three more responses coming in.

## **4. RESULTS OF THE SURVEY**

The responses to the questionnaire have been included in their entirety in Appendix C of this report. The only exceptions being when respondents sent official product and/or company brochures; it was simply not feasible to include this information in the report. Interested readers are encouraged to contact the organizations directly for such detailed information. The complete responses in Appendix C are organized in the same manner that the results are presented in Summary Table - 1995 Responses.

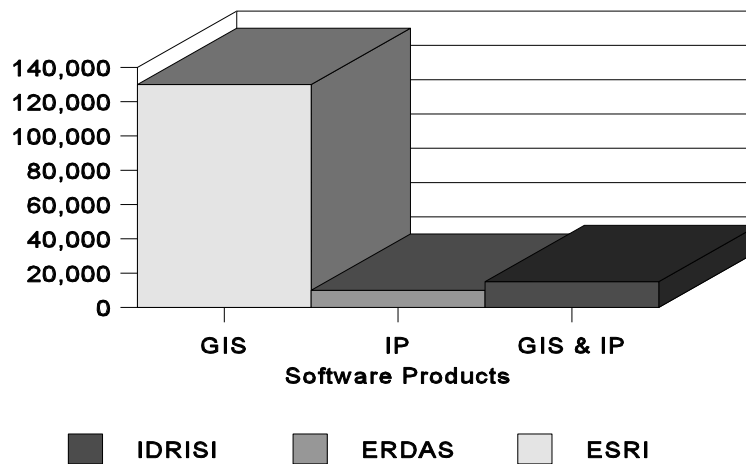
The Summary Table was designed to give the reader a comparative look at the various products. The information presented in the table is deemed to be some of the most important high level information that prospective buyers may use to quickly sort through the various products to narrow their field of search. The table is organized alphabetically by product name. Once the preliminary evaluations have been made at this high level, the reader can turn to Appendix C for more specific and detailed functional and descriptive information about the various products. And finally, if the reader desires even more information, it can be obtained through the organizational contacts also contained in Appendix C.

## **5. SURVEY FINDINGS/OBSERVATIONS**

### **5.1 Number of Responses**

A total of 62 organizations from 14 countries offering GIS, IP, or closely related software products responded to the survey with widely varying levels of completeness. Another 4 organizations offering complementary software products responded to the survey; they have been included in Appendix A of this report. In addition, 5 organizations that engage in consulting services related to GIS and IP responded with a desire to obtain a copy of the completed report.

## 1995 Market Leaders



Of the 65 organizations that responded to the survey in 1993, only 23 responded again in 1995. In addition, only 7 organizations have replied to the survey consistently since its beginning in 1991. It would only be a matter of conjecture as to why many organizations have not responded.

### 5.2 Number of Installations

The total number of licensed users of GIS and IP software reported by the respondents to the 1995 survey is 221,981. An analysis of the figures regarding the distribution of licensed users by continent reveals that approximately 52% of the installations are in North America, 25% in Europe, 9% in Asia, 6% in South America, 5% in Australia, and 3% in Africa. (See Appendix A.)

### 5.3 Industry Growth

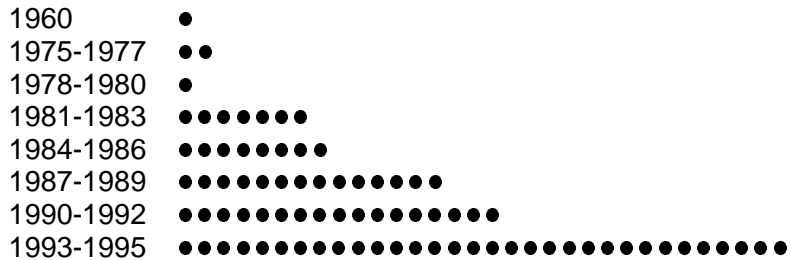
Because of the differences in both the numbers and identities of the organizations that responded to the survey, it is a bit of a challenge to compare results between years. By comparing the total number of installations reported by the 23 organizations that responded to both surveys, one might conclude that the number of users has increased by almost a factor of three (62,514 to 166,368). A closer look at the responses reveals that when we excluded the number of Environmental Systems Research Institute's (ESRI) product installations from the comparison, the number of installations increased only 1.3 times from 1993 to 1995 (26,097 to 36,368). Keep in mind that these figures are just a comparison of the 23 organizations that responded in both 1993 and 1995. Overall, the number of installations among the organizations that responded in 1995 compared to those that responded in 1993 has increased significantly (91,009 to 221,981).

### 5.4 Market Leaders

As was shown in the previous surveys, ESRI is still clearly the market leader in GIS software products, in terms of number of installations (130,000 reported) worldwide. In the area of full featured image processing systems, ERDAS is still the leader with 10,000 installations. And for both basic GIS and IP capability at a low price, IDRISI's product for PCs is still the leader with 15,000 installations. The number of installations varies a great deal from vendor to vendor. These market leaders represent the high end of the spectrum. On the other end, some relative newcomers reported having as few as one installation at the time the survey was completed.

## 5.5 New Product Introductions

Since GIS and IP technologies are still relatively young, many companies are introducing new products at a fairly rapid pace. A look at the distribution of products by year of first installation reveals the significant increase in number of offerings since the latter half of the '80s. The distribution by year of first installation follows:



## 5.6 Functionality and Price

The software systems represented in this survey vary widely in their functional capabilities as well as in their prices. More than 70 percent of the respondents indicated that their products include GIS functionality, about a third consider their products to be IP systems, approximately 10 percent offer some form of AM/FM system, and almost half offer either CAD or some other GIS or IP related software. Some systems offer a broad range of both GIS and IP functionality, others specialize in one of these two major functional areas, while still others have much more specialized market niches. There is not necessarily a direct relationship between functional capability and price. The commercial products range in price from a few hundred dollars to a few thousand and even up to several tens of thousands of dollars. There are also a couple of very capable systems that are in the public domain; however, support may be limited.

## 5.7 Technical Features

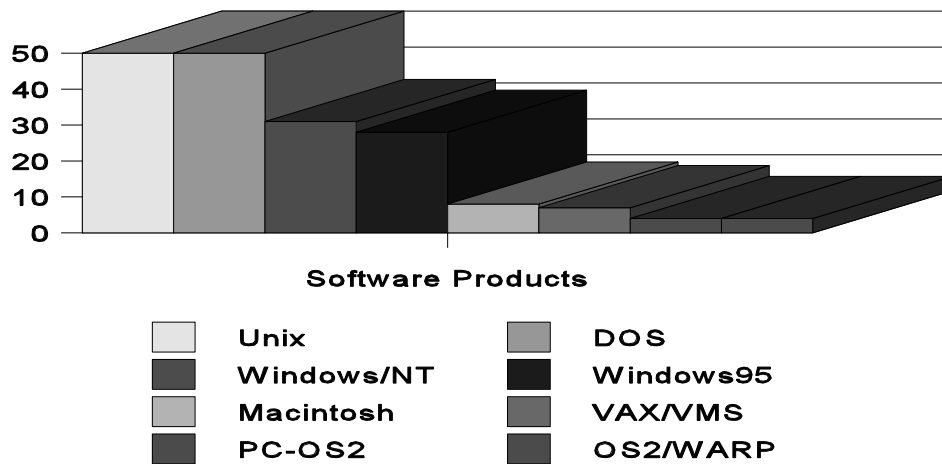
Technical sophistication of the software products included in this survey can also vary widely. About 20 percent of the systems are purported to have an expert system capability built into them; over 50 percent indicated having an object-oriented software architecture; 75 percent claim to utilize a spatial index to improve efficiencies; approximately 75 percent report to having an integrated data base management system (DBMS); and almost 90 percent report to having the capability to link to an external DBMS. In addition to the built in functionality of the systems, approximately 60 percent offer linkable libraries for data structure access, allowing users to write their own application software utilizing the same data structures; and source code can be obtained for about 20 percent of the systems. The responses to questions about source code and linkable libraries indicate that C is the language of choice for developing GIS and IP systems. While C++ is becoming a very popular language also, there is a noticeable decrease in the use of FORTRAN.

## 5.8 Turnkey Systems

A little more than half of the vendors responding to the survey are willing to provide turn-key solutions (bundled hardware and software) for their clients. Some offer standard packages, while others prefer to tailor the configuration to a user's specific needs.

## 5.9 Software Support

# 1995 Operating Systems



More than 80 percent of the organizations that responded to the survey indicated that they offer worldwide software support for their products. Almost all of the remainder offer support for a limited portion of the world. Only a couple of respondents indicated that no support is available.

## 5.10 Training Assistance

About 90 percent of the organizations responding to the survey offer training courses for their clients, about 85 percent offer training assistance in the form of courses, almost half offer tutorials, and about 6 percent offer training videos for their products.

## 5.11 Operating Systems

The most common operating systems supported for the various products were Unix and Microsoft DOS, with about 50 software products offered on each. Windows/NT and Windows/95 (a newly released operating system) were the third and fourth most offered with 31 and 28 products each, respectively. Apple Computer Corporation's Macintosh was a distant fifth with 8 products offered on it, Digital Equipment Corporation's (DEC) VMS was sixth with 7 products, and International Business Machine's (IBM) OS2 and OS2/WARP were reported to support 4 products each. The most readily apparent trend since the 1993 survey was an increase in Windows operating systems that are offered, especially since the arrival of Windows/95. Unix and DOS were both represented in similar proportions in 1995 as in 1993.

## 5.12 User Interfaces

The trend towards windows based applications and graphical user interfaces throughout the software industry is occurring with GIS, IP, and related applications. While almost a third of the products have simple command line interfaces, more than 75 percent of the products have a menu based interface. Some products apparently have more than one type of user interface.

## 5.13 On-line Help

Nearly all of the systems (approximately 90%) offer some form of on-line help. Almost half of the products have a context sensitive help facility, and about one-third have basic on-line help. About

a third of the products are reported to have a full hypertext help facility incorporated into the software system. Some of the systems have more than one type of help facility included.

#### **5.14 Documentation**

While users' guides and related documentation have traditionally been distributed in hard copy form, more than half of the respondents indicated that their documentation is available in electronic and hard copy form. Approximately one-third offer only hard copy documentation, and six respondents only an electronic version. Almost all vendors offer an English version of their software documentation. About one-fourth of respondents offer a French version, a little more than 10% offer a German version, approximately 10 percent offer Spanish, and even fewer respondents offer documentation in languages such as Swedish, Italian, Dutch, Japanese, Portuguese, Danish, Greek, and Russian.

### **6. CONCLUSIONS**

It is hoped that this survey provides a fairly comprehensive look at the worldwide offerings in GIS and IP software systems. The number of respondents was down from 65 in 1993 to 62 in 1995. And by including the 41 that responded in 1993 but not 1995, this report covers GIS, IP, and related software products offered by 103 different organizations from at least 19 different countries around the world. From the results of this survey, it is quite apparent that the proliferation of GIS and IP technologies is continuing at a very rapid pace—predominantly in North America and Europe. As of late 1995, there were reported to be approximately a quarter of a million installations of GIS, IP, or closely related software systems worldwide.

This report is intended to provide basic information about GIS and IP systems along with names, addresses, and phone numbers of the organizations that provide these systems to potential users in the developing world. No attempt was made to evaluate the functional capabilities of the systems nor to perform benchmark tests of the systems. All the product specific information contained in this report was compiled based on replies received from software vendors. UNEP/GRID takes no responsibility for inaccuracies that may have been present in the vendor responses. It is not recommended that any purchasing decisions be made based solely on the information contained herein. Potential users should contact the software vendors directly for more detailed information as necessary.







## **SUMMARY TABLE - 1995 RESPONSES**

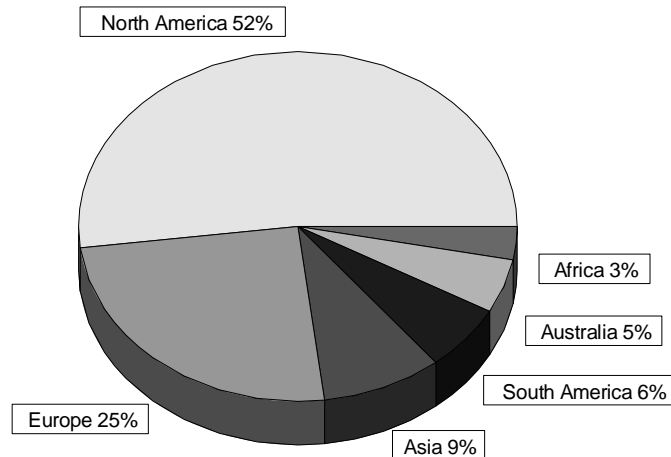
## **APPENDIX A**

### **1995 AND 1993 GIS & IP INSTALLATIONS**



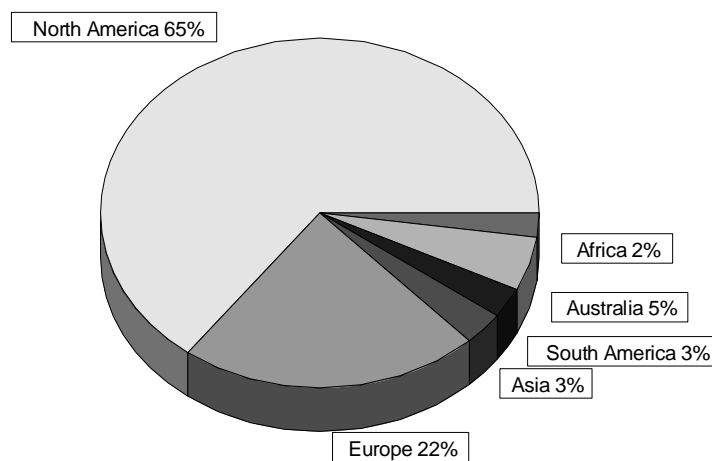
# 1995 Survey: Number of Installations

(221,981 Reported Licensed Users)



# 1993 Survey: Number of Installations

(93,898 Reported Licensed Users)





**APPENDIX B**  
**COMPLEMENTARY PRODUCTS**



## COMPLEMENTARY PRODUCTS

A few companies offering products that are complementary to GIS and IP systems responded to the questionnaire. While it was not appropriate to intermix these products with the others in the tables, neither did it seem appropriate to leave them out completely. Thus, they are presented here in very brief form, and the reader is encouraged to contact these vendors directly if more information is desired.

Geographic Data Technology, 11 Lafayette St., Labanon, NH, USA, 03768, phone 800-331-7881 x1124. Contact Donald Crolee. They sell map databases.

Harrison Resource Corporation, 760 Whalers Way, Suite A-200, Fort Collins, CO, USA, 80525, phone 800-447-6155, fax 970-226-6300, e-mail 75277.1250@compuserve.com. Contact Randy L. Majors. They sell 120 layers of Colorado data, (demographic, topographic, natural resource, hydrographic, physical feature, legal boundary, environmental hazards, general reference, buffer, solution).

Lenzar Electro-optics, 3960 RCA Blvd., #6001, Palm Beach Gardens, FL, USA, 33410, phone 407-775-2600, fax 407-775-9100, e-mail lenzar@gate.net. Contact Elena Penta. They sell a digitizing scanner (LENZPRO 2001) for Unix operating systems.

Tele Atlas, Moutstraat 42, 9000 Gent, Belgium, phone 32-9-222-56-58, fax 32-9-222-74-72, e-mail info@teleatlas.be. Contact Anne Marie Vanden Berghe or Ad Bastiaansen. They offer many digital maps (StreetNet, StreetMap, RoadNet, BoundaryMap).





**APPENDIX C**  
**QUESTIONNAIRE**



**UNITED NATIONS ENVIRONMENT PROGRAMME**  
**GLOBAL RESOURCE INFORMATION DATABASE**  
*Geographic Information Systems (GIS) and Image Processing (IP) Systems Survey, 1995*

Please return a completed questionnaire for each product to Caroline Fenno, UNEP/GRID, EROS Data Center, Sioux Falls, SD, 57198, USA.

Direct questions/comments to Caroline Fenno at cfenno@grid2.cr.usgs.gov (e-mail), or 605-594-6064 (voice) or 605-594-6529 (fax).

**PRODUCT NAME:** \_\_\_\_\_

**COMPANY/ORGANIZATION**

**Company Name:** \_\_\_\_\_

**Contact Person(s):** \_\_\_\_\_

**Street Address:** \_\_\_\_\_

**City, State:** \_\_\_\_\_

**Zip, Country:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**1. Type of product:**

☐ GIS   ☐ Image Processing   ☐ AM/FM   ☐ CAD   ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain or commercial?**

◇ **Public Domain:**

**Costs for Distribution/Documentation:** \_\_\_\_\_

◇ **Commercial Product**

**Licensed by:** ☐ User   ☐ System   ☐ Site   ☐ Other: \_\_\_\_\_

**License fee is:** ☐ One Time Charge   ☐ Other Charge: \_\_\_\_\_

**3. Turnkey system available (bundled hardware & software):** ◇ Yes   ◇ No

**4. Basic (minimal) software system cost:** \_\_\_\_\_

**5. Complete (fully capable) software system cost:** \_\_\_\_\_

## USER BASE

6. Total number of licensed users: \_\_\_\_\_
7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_
8. Year of first installation: \_\_\_\_\_

## SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_
10. Software support available: ☐ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_
11. Cost of support: ☐ Included in License ☐ Other: \_\_\_\_\_
12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_
13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported:\_\_\_\_\_

---

---

19. Minimum hardware configuration:\_\_\_\_\_

---

---

20. Devices supported: (Please list)

### INPUT

### OUTPUT

☐ Digitizers:\_\_\_\_\_

\_\_\_\_\_

☐ Frame Grabbers:\_\_\_\_\_

\_\_\_\_\_

☐ Scanners:\_\_\_\_\_

\_\_\_\_\_

☐ GPS:\_\_\_\_\_

\_\_\_\_\_

☐ CD-ROM:\_\_\_\_\_

\_\_\_\_\_

☐ Diskette:\_\_\_\_\_

\_\_\_\_\_

☐ Tape:\_\_\_\_\_

\_\_\_\_\_

☐ Displays:\_\_\_\_\_

\_\_\_\_\_

☐ Film Recorders:

\_\_\_\_\_

\_\_\_\_\_

☐ Electrostatic Plotters:

\_\_\_\_\_

\_\_\_\_\_

☐ Pen Plotters:

\_\_\_\_\_

☐ Ink Jet Printers:

☐ Laser Printers:

☐ Others:\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_

☐ No

22. Batch capability: ☐ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other:\_\_\_\_\_

☐ No

24. Integrated Data Base Management System: ☐ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☐ Other:\_\_\_\_\_

26. Data Exchange Formats Supported:\_\_\_\_\_

27. If GIS Product: ☐ Vector ☐ Raster

28. GIS Functionality:

☐ Map Digitizing

☐ Map Display & Query

☐ Digital Map Editing

☐ Change Map Projections

☐ Topographical Structuring

☐ Datum Changes

☐ Network Flow Analysis

☐ Vector Overlay Analysis

☐ Cell-based (Raster) Modeling

☐ Surface Modeling

☐ Map Composition/Generation

☐ Buffer generation

☐ Raster-Vector Conversion

☐ Line-of-Sight Analysis

☐ Edgematching

☐ Map Joining

29. Image Processing Functionality:

☐ Interactive Display

☐ Image Enhancement

☐ Geometric Rectification

☐ Spatial Filtering

☐ Image Mosaicking

☐ Fourier Analysis

☐ Radiometric Corrections

☐ Multivariate/Statistical Analysis

☐ Raster GIS Modeling

☐ Radar Geocoding & Analysis

☐ Hardcopy Map Comp./Anno.

☐ Principal Components Analysis

☐ Filtering

☐ Density Slicing

☐ Supervised Classification

☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**APPENDIX D**

**SURVEY RESPONSES**



PRODUCT NAME: ACTIONPLAN

COMPANY/ORGANIZATION

Company Name: Action Information (Management) Ltd.  
Contact Person(s): John Page  
Street Address: Ashton Road  
City, State: Hilperton, Nr. Trowbridge, Wiltshire  
Zip, Country: BA14 7SZ UK  
Phone: 44-01225-751616  
Fax: 44-01225-751616  
Email: N/A

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: To suit requirements

License fee is: ☒ One Time Charge ☐ Other Charge:                     

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £900 (sterling)

5. Complete (fully capable) software system cost: £16000 (sterling)

USER BASE

6. Total number of licensed users: 150

7. Number of licensed users by continent: Africa:                       
Asia:                       
Australia:                       
Europe: 150  
North America:                       
South America:                     

8. Year of first installation: 1988

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other:                     

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:                     

11. Cost of support: ☐ Included in License ☒ Other: Support contract available

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other:                     

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: Touch screen buttons user customizable

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☒ Other: PC-DOS only
19. Minimum hardware configuration: IBM compatible 486 66MHZ PC with 16MB RAM
20. Devices supported:
- | INPUT   | OUTPUT   |
|---|--|
| <input type="checkbox"/> Digitizers: _____                    |  |
| <input type="checkbox"/> Frame Grabbers: _____                |  |
| <input type="checkbox"/> Scanners: _____                      |  |
| <input checked="" type="checkbox"/> GPS: <u>Various</u>       |  |
| <input checked="" type="checkbox"/> CD-ROM: _____             |  |
| <input checked="" type="checkbox"/> Diskette: <u>3.5 inch</u> |  |
| <input type="checkbox"/> Tape: _____                          |  |
| <input checked="" type="checkbox"/> Displays:                 | <u>SVGA monitor, optional touch</u><br><u>screen</u>   |
| <input type="checkbox"/> Film Recorders: _____                |  |
| <input type="checkbox"/> Electrostatic Plotters: _____        |  |
| <input type="checkbox"/> Pen Plotters: _____                  |  |
| <input checked="" type="checkbox"/> Ink Jet Printers:         | <u>HP compatible HPGL and</u><br><u>HPGL supported</u> |
| <input checked="" type="checkbox"/> Laser Printers:           | <u>HP and others</u>                                   |
| <input type="checkbox"/> Others: _____                        |  |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Action Information (Management) Ltd.'s  
proprietary database format

**26. Data Exchange Formats Supported:** not reported

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <input type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections             |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes                      |
| <input type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling                   |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation                  |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** ActionPlan offers fast display and intuitive operation. As Windows becomes universally accepted it is anticipated that the DOS based Action Plan will be superceded by ActionPlan for Windows.

PRODUCT NAME: A.L.I.C.E. - CASTASTO STRADE

COMPANY/ORGANIZATION

Company Name: EL.DA.INGEGNERIA S.P.A.  
Contact Person(s): not reported  
Street Address: Via Damiano Chiesa, 5  
City, State: Treviso  
Zip, Country: TV31100, Italy  
Phone: 39-422-411160  
Fax: 39-422-411217  
Email: MC 7192@mclink.it

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: not reported

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☐ Other: not reported

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Italian
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: AIX/MOTIF: SUN

19. Minimum hardware configuration: not reported

20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: _____	
<input checked="" type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: _____	
<input checked="" type="checkbox"/> Displays: _____	_____
<input checked="" type="checkbox"/> Film Recorders: _____	_____
<input checked="" type="checkbox"/> Electrostatic Plotters: _____	_____
<input checked="" type="checkbox"/> Pen Plotters: _____	_____
<input checked="" type="checkbox"/> Ink Jet Printers: _____	_____
<input checked="" type="checkbox"/> Laser Printers: _____	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: not reported

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input type="checkbox"/> Buffer generation                  |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** not reported



**PRODUCT NAME:** ALK-GIAP as a component of the ALK/ATKINS system

#### COMPANY/ORGANIZATION

**Company Name:** Surveying and Mapping Agency NRW  
**Contact Person(s):** Dipl-Ing. Düren  
**Street Address:** Muffendorfer Straße 19-21  
**City, State:** Bonn 53177  
**Zip, Country:** Germany  
**Phone:** 049-0228-846-480  
**Fax:** 049-0228-846-502  
**Email:** not reported

**1. Type of product:**

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

#### LICENSING/PRICING

**2. Is the product public domain *or* commercial?**

◆ **Commercial Product** Please contact AED Graphics GmbH, Mallwitzstr. 1-3, 53177 Bonn

**Licensed by:** ☐ User ☒ System ☒ Site ☐ Other: tel. 049-0228-95420

**License fee is:** ☒ One Time Charge ☐ Other Charge: fax 049-0228-9542111

**3. Turnkey system available (bundled hardware & software):** ◆ Yes ◇ No

**4. Basic (minimal) software system cost:** please contact AED Graphics GmbH

**5. Complete (fully capable) software system cost:** not reported

#### USER BASE

**6. Total number of licensed users:** 850

**7. Number of licensed users by continent:** Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 850  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

**8. Year of first installation:** 1986

#### SUPPORT/UPDATES

**9. Training available:** ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☐ Worldwide ☐ Not Available ☒ Other: Germany

**11. Cost of support:** ☒ Included in License ☐ Other: \_\_\_\_\_

**12. Software updates:** ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

**13. Cost of updates:** ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☐ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. **Online help:** ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: DEC, HP, IBM, SGI, SNI,  
SUN, MOTIF, Sunview

19. **Minimum hardware configuration:** Workstation

20. **Devices supported:**

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers:_____	
<input type="checkbox"/> Frame Grabbers:_____	
<input type="checkbox"/> Scanners:_____	
<input type="checkbox"/> GPS:_____	
<input checked="" type="checkbox"/> CD-ROM:_____	
<input checked="" type="checkbox"/> Diskette:_____	
<input checked="" type="checkbox"/> Tape:_____	
<input checked="" type="checkbox"/> Displays:_____	_____
<input checked="" type="checkbox"/> Film Recorders:_____	_____
<input checked="" type="checkbox"/> Electrostatic Plotters:_____	_____
<input checked="" type="checkbox"/> Pen Plotters:_____	_____
<input checked="" type="checkbox"/> Ink Jet Printers:_____	_____
<input checked="" type="checkbox"/> Laser Printers:_____	_____
<input type="checkbox"/> Others:_____	_____

21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

22. **Batch capability:** ☐ Yes ☒ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☐ C ☐ C++ ☒ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☐ Yes ☒ No

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: ALK / ATKINS-DBMS, AED-IDB

26. **Data Exchange Formats Supported:** ALK / ATKINS - EDBS, TIFF

27. **If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input type="checkbox"/> Change Map Projections             |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input type="checkbox"/> Buffer generation                  |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification  | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking                    | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                 | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☐ Yes ☒ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Object oriented data structure. Own object oriented  
programming language for data manipulation and presentation.

PRODUCT NAME: ALLIANCE

COMPANY/ORGANIZATION

Company Name: Icare International  
Contact Person(s): Didier Coulet  
Street Address: Prologue Voie No1, BP 2736  
City, State: 31312 Labège Cedex  
Zip, Country: France  
Phone: 33-61-39-03-13  
Fax: 33-61-39-25-34  
Email: not reported

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☐ Other: not reported

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$5000 ALLIANCE

5. Complete (fully capable) software system cost: \$12,000 ALLIANCE + DTM + IP

USER BASE

6. Total number of licensed users: 150

7. Number of licensed users by continent: Africa: 20  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 130  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: PC RAM 16 MB
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input checked="" type="checkbox"/> Digitizers: _____             |        |
| <input type="checkbox"/> Frame Grabbers: _____                    |        |
| <input checked="" type="checkbox"/> Scanners: _____               |        |
| <input checked="" type="checkbox"/> GPS: _____                    |        |
| <input checked="" type="checkbox"/> CD-ROM: _____                 |        |
| <input checked="" type="checkbox"/> Diskette: _____               |        |
| <input type="checkbox"/> Tape: _____                              |        |
| <input checked="" type="checkbox"/> Displays: _____               | _____  |
| <input checked="" type="checkbox"/> Film Recorders: _____         | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ | _____  |
| <input checked="" type="checkbox"/> Pen Plotters: _____           | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____         | _____  |
| <input type="checkbox"/> Others: _____                            | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☒ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: DXF, MIF, EOO
27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring               | <input type="checkbox"/> Datum Changes                      |
| <input type="checkbox"/> Network Flow Analysis                   | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input type="checkbox"/> Edgematching                            | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement           |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering           |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                       |
| <input type="checkbox"/> Radiometric Corrections              | <input type="checkbox"/> Multivariate/Statistical Analysis      |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis             |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.             | <input type="checkbox"/> Principal Components Analysis          |
| <input checked="" type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                        |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** To meet the need of planning officers, agri-environmental project managers, ICARE INTERNATIONAL designed ALLIANCE; an easy to use Geographical Information System with Powerful analysis functions, Raster / Vector integration functions.

PRODUCT NAME: APIC

COMPANY/ORGANIZATION

Company Name: APIC S.A.  
Contact Person(s): Pierre Tarif, Marketing Director  
Street Address: Le Baudran, 25, Rue de Stalingrad  
City, State: Arcueil  
Zip, Country: 94724 Ceder, France  
Phone: 33-1-49-69-90-90  
Fax: 33-1-49-69-92-93  
Email: Info@apic.fr

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$12,000

5. Complete (fully capable) software system cost: \$25,000

USER BASE

6. Total number of licensed users: 600

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: 2%  
Australia: \_\_\_\_\_  
Europe: 95%  
North America: \_\_\_\_\_  
South America: 3%

8. Year of first installation: 1984

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Maintenance contract available

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: IBM-AIX / HP-HPUX9 /  
DEC-ULTRIX / DEC-OSF1 / SUN-SOLARIS1 / SUN-SOLARIS2

19. Minimum hardware configuration: RAM 32 MB

20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>All serial port</u>	
<input type="checkbox"/> Frame Grabbers:_____	
<input type="checkbox"/> Scanners:_____	
<input type="checkbox"/> GPS:_____	
<input type="checkbox"/> CD-ROM:_____	
<input type="checkbox"/> Diskette:_____	
<input type="checkbox"/> Tape:_____	
<input type="checkbox"/> Displays:_____	
<input type="checkbox"/> Film Recorders:_____	
<input checked="" type="checkbox"/> Electrostatic Plotters:_____	<u>HPGL2, Postscript</u>
<input checked="" type="checkbox"/> Pen Plotters:_____	<u>HPGL2, Postscript</u>
<input checked="" type="checkbox"/> Ink Jet Printers:_____	
<input checked="" type="checkbox"/> Laser Printers:_____	
<input type="checkbox"/> Others:_____	

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_

☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☒ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_

☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☒ Other: Object-Oriented / Informix / Ingres

26. Data Exchange Formats Supported: EDIGEO / NTF / FED / DXF



**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** Multi-bases access (simultaneous access to several databases by one user).

PRODUCT NAME: ArcCAD

COMPANY/ORGANIZATION

Company Name: ESRI  
Contact Person(s): Arun Rajarao  
Street Address: 380 New York Street  
City, State: Redlands, CA  
Zip, Country: 92373, USA  
Phone: 909-793-2853  
Fax: 909-793-5953  
Email: Info@esri.com (World Wide Web URL: http://www.esri.com)

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☐ Other: not reported

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ☐ Yes ☐ No

4. Basic (minimal) software system cost: Contact ESRI

5. Complete (fully capable) software system cost: Contact ESRI

USER BASE

6. Total number of licensed users: 10,000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: not reported

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: not reported

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Language  
available through  
Auto CAD interface.
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 4 - 8 MB RAM, 40 MB hard disk
20. Devices supported:
- | INPUT   | OUTPUT                    |
|---|---------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>manual</u>                   |                           |
| <input type="checkbox"/> Frame Grabbers: _____                                  |                           |
| <input checked="" type="checkbox"/> Scanners: _____                             |                           |
| <input checked="" type="checkbox"/> GPS: _____                                  |                           |
| <input type="checkbox"/> CD-ROM: _____  |                           |
| <input checked="" type="checkbox"/> Diskette: _____                             |                           |
| <input type="checkbox"/> Tape: _____  |                           |
| <input type="checkbox"/> Displays: _____  |                           |
| <input checked="" type="checkbox"/> Film Recorders: _____                       |                           |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____               |                           |
| <input checked="" type="checkbox"/> Pen Plotters: _____                         |                           |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____                     |                           |
| <input checked="" type="checkbox"/> Laser Printers: _____                       |                           |
| <input checked="" type="checkbox"/> Others: <u>photogrammetric, COGO, mouse</u> | <u>dot matrix printer</u> |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☒ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☒ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: ARC, DXf, IGES, VPF

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query    |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes          |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input type="checkbox"/> Vector Overlay Analysis           |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling       |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input type="checkbox"/> Buffer generation                 |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis            |
| <input type="checkbox"/> Edgematching                          | <input checked="" type="checkbox"/> Map Joining            |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** ArcCAD extends the AutoCAD data model to include complete GIS Functionality that many CAD users want and need. It fully integrates ARC/INFO functionality within the AutoCAD environment, presenting powerful GIS tools behind a familiar pull-down menu interface. ArcCAD supports Intel-based personal computers running DOS or Windows.

PRODUCT NAME: ARC/INFO

COMPANY/ORGANIZATION

Company Name: ESRI  
Contact Person(s): Arun Rajarao  
Street Address: 380 New York Street  
City, State: Redlands, CA  
Zip, Country: 92373, USA  
Phone: 909-793-2853  
Fax: 909-793-5953  
Email: info@esri.com (World Wide Web URL: http://www.esri.com)

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other:           

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other:           

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Contact ESRI

5. Complete (fully capable) software system cost: Contact ESRI

USER BASE

6. Total number of licensed users: 40,000 +

7. Number of licensed users by continent: Africa:                                   
Asia:                                   
Australia:                                   
Europe:                                   
North America:                                   
South America:                                 

8. Year of first installation: 1982

SUPPORT/UPDATES

9. Training available: ☒ Courses ☒ Videos ☒ Tutorials ☐ Other:           

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:           

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other:           

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: not reported

DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☐ Hardcopy ☐ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Fully internationalized
16. **Online help:** ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Data General, DEC, Hewlett-Packard, Intel, Silicon Graphics, Sun, IBM, NEC, Unisys

19. **Minimum hardware configuration:** 16 - 32 MB RAM, 600 MB hard disk

20. **Devices supported:**

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>manual</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: _____	
<input checked="" type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	_____
<input checked="" type="checkbox"/> Tape: _____	_____
<input checked="" type="checkbox"/> Displays: _____	_____
<input checked="" type="checkbox"/> Film Recorders: _____	_____
<input checked="" type="checkbox"/> Electrostatic Plotters: _____	_____
<input checked="" type="checkbox"/> Pen Plotters: _____	_____
<input checked="" type="checkbox"/> Ink Jet Printers: _____	_____
<input checked="" type="checkbox"/> Laser Printers: _____	_____
<input checked="" type="checkbox"/> Others: <u>photogrammetric, mouse, COGO</u>	<u>dot matrix printer</u>

21. **Source code available:** ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☒ C++ ☒ FORTRAN  
☐ Pascal ☒ Other: \_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☒ dBase ☐ Foxbase ☐ IMS ☒ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☐ Other: DB2, Informix, Ingres, Rbase, SQL 400, Rdb (VAX), AS/400

**26. Data Exchange Formats Supported:** Arc, AVHRR, DLG, DXF, ERDAS, IGES, MOSS, TIGER,  
ASCII, others

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Interactive Display            | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification        | <input type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking    | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections        | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.       | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                      | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification      | <input type="checkbox"/> Unsupervised Classification       |

Arc/Info can do all this with ERDAS Imagine.

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☒ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** ARC/INFO, ESRI's flagship software product, is a high-end GIS  
that consists of a complete geoprocessing toolbox for the automation, modification, management, analysis, and  
display of geographic information. (ARC/INFO has 8 extensions available: ARC/INFO NETWORK, ARC/INFO  
TIN, ARC/INFO GRID, ARC/INFO COGO, ArcExpress, ArcPress, ArcScan, ArcStorm.

PRODUCT NAME: PC ARC/INFO

COMPANY/ORGANIZATION

Company Name: ESRI  
Contact Person(s): Arun Rajarao  
Street Address: 380 New York Street  
City, State: Redlands, CA  
Zip, Country: 92373, USA  
Phone: 909-793-2853  
Fax: 909-793-5953  
Email: Info@esri.com (World Wide Web URL: http://www.esri.com)

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Contact ESRI

5. Complete (fully capable) software system cost: Contact ESRI

USER BASE

6. Total number of licensed users: 15,000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1987

SUPPORT/UPDATES

9. Training available: ☒ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: not reported

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: not reported



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Fully  
internationalized
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: not reported
20. Devices supported:
- | INPUT   | OUTPUT                    |
|---|---------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>manual</u>     |                           |
| <input type="checkbox"/> Frame Grabbers: _____                    |                           |
| <input checked="" type="checkbox"/> Scanners: _____               |                           |
| <input checked="" type="checkbox"/> GPS: _____                    |                           |
| <input type="checkbox"/> CD-ROM: _____                            |                           |
| <input checked="" type="checkbox"/> Diskette: _____               |                           |
| <input type="checkbox"/> Tape: _____                              |                           |
| <input type="checkbox"/> Displays: _____                          |                           |
| <input checked="" type="checkbox"/> Film Recorders: _____         |                           |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ |                           |
| <input checked="" type="checkbox"/> Pen Plotters: _____           |                           |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       |                           |
| <input checked="" type="checkbox"/> Laser Printers: _____         |                           |
| <input checked="" type="checkbox"/> Others: _____                 | <u>dot matrix printer</u> |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: ARC, DLG, DXF, ERDAS, IGES, ISIF, MOSS, ASCII
27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring             | <input checked="" type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis                 | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion   | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** PC ARC/INFO provides many of the functions of workstation-based ARC/INFO software in the PC computing environment under either a DOS or Windows operating system.

PRODUCT NAME: ArcView 2.1

#### COMPANY/ORGANIZATION

Company Name: ESRI  
Contact Person(s): Arun Rajarao  
Street Address: 380 New York Street  
City, State: Redlands, CA  
Zip, Country: 92373, USA  
Phone: 909-793-2853  
Fax: 909-793-5953  
Email: Info@esri.com (World Wide Web URL: http://www.esri.com)

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: desktop mapping, GPS, geocoding

#### LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Contact ESRI

5. Complete (fully capable) software system cost: Contact ESRI

#### USER BASE

6. Total number of licensed users: 65,000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1994

#### SUPPORT/UPDATES

9. Training available: ☒ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: not reported

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: not reported

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☐ Hardcopy ☐ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☒ French  
☒ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☒ Portuguese ☒ Russian ☒ Spanish ☒ Other: Danish,  
Dutch, Hungarian, Polish, Slovak, Swedish, Finnish, Norwegian, Croatian, Slovenian, Romanian,  
Greek, Latin, Turkish.
16. **Online help:** ☒ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☒ Macintosh ☒ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☐ Other: \_\_\_\_\_
- If UNIX/X-Windows, list vendors and window managers supported: Data General, DEC, Hewlett-  
Packard, Silicon Graphics, Sun, NEC, IBM.
19. **Minimum hardware configuration:** depends on hardware; Mac: System 7 or higher (Power Mac)
20. **Devices supported:**

### INPUT

- ☒ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☒ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☒ Others: mouse

### OUTPUT

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- dot matrix printer

21. **Source code available:** ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. **Batch capability:** ☒ Yes ☐ No
23. **Linkable libraries for data structure access:** ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☒ dBase ☒ Foxbase ☐ IMS ☒ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☒ Other: Informix, Ingres, DB2, any ODBC-  
compliant system.

**26. Data Exchange Formats Supported:** DXF, DWG, SDTS, many others

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections         |
| <input type="checkbox"/> Topographical Structuring               | <input type="checkbox"/> Datum Changes                  |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis        |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling               |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation   |
| <input type="checkbox"/> Raster-Vector Conversion                | <input type="checkbox"/> Line-of-Sight Analysis         |
| <input type="checkbox"/> Edgematching                            | <input type="checkbox"/> Map Joining                    |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** ArcView software is an easy-to-learn desktop mapping and GIS  
tool that enables users to quickly select and display different combinations of data and creatively visualize  
information. ArcView has proven to be extremely popular with novice and part-time users of geographic  
information.

PRODUCT NAME: Ascodes-3

COMPANY/ORGANIZATION

Company Name: JSInfo  
Contact Person(s): P. Gaubert  
Street Address: 8, rue de la Maison Rouge  
City, State: Lognes  
Zip, Country: 77185, France  
Phone: 33-1-60-17-34-21  
Fax: 33-1-60-17-27-58  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$15,000 US

5. Complete (fully capable) software system cost: \$45,000 US

USER BASE

6. Total number of licensed users: 273

7. Number of licensed users by continent: Africa: 17  
Asia: 3  
Australia: 0  
Europe: 250  
North America: 1  
South America: 2

8. Year of first installation: 1983

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Included in maintenance contract

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: not reported

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☒ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: HP-UX; X Vision (Vision Ware)

19. Minimum hardware configuration: 32 MB RAM; 1 GB Hard Disk; 1280 x 1024 screen resolution.
20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>Summagraphics; Aristo</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>TIFF</u>	
<input checked="" type="checkbox"/> GPS: <u>ASCII</u>	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: <u>cartridges, DAT</u>	
<input checked="" type="checkbox"/> Displays: _____	
<input type="checkbox"/> Film Recorders: _____	
<input checked="" type="checkbox"/> Electrostatic Plotters: _____	
<input checked="" type="checkbox"/> Pen Plotters: _____	<u>HPGL</u>
<input checked="" type="checkbox"/> Ink Jet Printers: _____	<u>PCL</u>
<input checked="" type="checkbox"/> Laser Printers: _____	<u>PCL</u>
<input checked="" type="checkbox"/> Others: <u>other graphic printers</u>	

21. Source code available: ☐ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: coding and decoding features

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion              | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification  | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking                    | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                 | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** The unique structure of the database includes geographic (3D and topologic), graphic (vector and raster), and alphanumeric information. Ascodes-3 controls TCP/IP links with external programs or Data Bases. All features, including advanced Cartography/Mapping capabilities (topographic or thematic), and the set of instructions queries (on spatial and alphanumeric attributes), are acceded either directly or via its user language.



PRODUCT NAME: ATLAS GIS

COMPANY/ORGANIZATION

Company Name: Scientific Software Group  
Contact Person(s): Susan Hardy  
Street Address: 11118 Sweetwood Lane  
City, State: Oakton, VA  
Zip, Country: 22124, USA  
Phone: 703-620-9214  
Fax: 703-620-6793  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: US \$500; International \$800

5. Complete (fully capable) software system cost: Same as above

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: not reported

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☒ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Each upgrade differs

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware 386 with 4MB RAM
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers: _____                |        |
| <input type="checkbox"/> Frame Grabbers: _____            |        |
| <input type="checkbox"/> Scanners: _____                  |        |
| <input type="checkbox"/> GPS: _____                       |        |
| <input type="checkbox"/> CD-ROM: _____                    |        |
| <input checked="" type="checkbox"/> Diskette: _____       |        |
| <input checked="" type="checkbox"/> Tape: _____           |        |
| <input type="checkbox"/> Displays: _____                  | _____  |
| <input type="checkbox"/> Film Recorders: _____            | _____  |
| <input type="checkbox"/> Electrostatic Plotters: _____    | _____  |
| <input type="checkbox"/> Pen Plotters: _____              | _____  |
| <input type="checkbox"/> Ink Jet Printers: _____          | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____ | _____  |
| <input type="checkbox"/> Others: _____                    | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☒ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: any spreadsheet or dBase
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query    |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes                     |
| <input type="checkbox"/> Network Flow Analysis                   | <input type="checkbox"/> Vector Overlay Analysis           |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling       |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation      |
| <input type="checkbox"/> Raster-Vector Conversion                | <input type="checkbox"/> Line-of-Sight Analysis            |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining            |

**29. Image Processing Functionality:**

- |  |   |
|--|---|
| <input type="checkbox"/> Interactive Display                 | <input type="checkbox"/> Image Enhancement                            |
| <input type="checkbox"/> Geometric Rectification             | <input type="checkbox"/> Spatial Filtering                            |
| <input type="checkbox"/> Image Mosaicking                    | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling      | <input type="checkbox"/> Radar Geocoding & Analysis                   |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis                |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                              |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification                  |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Support for up to 250 map layers; built-in database manager links up to 250 tables to any geography; imports data from any dBASE-compatible database or spreadsheet; query support from either the data table or the map; sophisticated spatial analysis including area-weighted data aggregation-multiple buffer creation-combine features and associated data; map presentation tools including bivariate, shaded area, proportional fill or symbol and dot density theme types; 32 data ranges and eight ranging methods; edit titles, legends, scale bars and more on-screen; custom scripting tool using Visual Basic language (optional); extensive color palette and support for all Windows print drivers; friendly Windows interface with Button Bar, Toolbox and Status Bar. ATLAS GIS comes bundled with a large library of base maps, data and page layout templates such as Counties of the World, Capitals of the World, U.S. States, U.S. Counties, U.S. Interstate Highways, Canadian Provinces, and 3-Digit Zip Codes, among many others.

PRODUCT NAME: CARIS (Computer Aided Resource Information System)

COMPANY/ORGANIZATION

Company Name: Universal Systems Ltd.  
Contact Person(s): Liz Kingston  
Street Address: 270 Rookwood Avenue  
City, State: Fredericton, NB  
Zip, Country: E3B 2M2, Canada  
Phone: 506-458-8533  
Fax: 506-459-3849  
Email: sales@universal.ca

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$635 US (CARIS for Windows)

5. Complete (fully capable) software system cost: \$15,525 CARIS for UNIX

USER BASE

6. Total number of licensed users: 2200 +

7. Number of licensed users by continent: Africa: 110  
Asia: 198  
Australia: 132  
Europe: 550  
North America: 990  
South America: 220

8. Year of first installation: 1982

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☒ Arabic ☐ Bengali ☒ English ☒ French  
☒ German ☐ Hindi ☒ Japanese ☒ Mandarin  
☐ Portuguese ☒ Russian ☒ Spanish ☒ Other: Farsi
16. **Online help:** ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: DDF link, MS Classes

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☒ Other: NEXT

If UNIX/X-Windows, list vendors and window managers supported: HP, Digital Equipment, SUN  
Silicon Graphics, Data General, 486 PC supporting SCO/ODT

19. **Minimum hardware** Windows: 12 MB RAM, 486-33 PC, 350 MB Diskspace, parallel port, serial  
port for digitizer/plotter, three button mouse; UNIX: 16 MB RAM, 200 MB Diskspace, three button  
mouse, serial ports for digitizers/plotters.

20. **Devices supported:**

### INPUT

### OUTPUT

- ☒ Digitizers: Includes devices manufactured by  
Calcomp, Hewlett Packard,
- ☒ Frame Grabbers: Houston, Versatec,  
Kongsberg, and Wild
- ☒ Scanners: \_\_\_\_\_
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

Output formats include HPGL,  
Postscript, Adobe Illustrator,  
HPGL2, and Versatec.

21. **Source code available:** ☐ Yes: ☒ C ☒ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

◇ No

**24. Integrated Data Base Management System:** ◆ Yes ◇ No

**25. Data Base File Types Supported:**    ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
   ☒ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
   ☐ Sybase ☒ Other: Ingres, Informix

**26. Data Exchange Formats Supported:** DXF, DLG, SIF, TIFF, DIGEST, DX90

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement      |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering      |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis       |
| <input type="checkbox"/> Radiometric Corrections              | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ◆ Yes ◇ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◆ Yes ◇ No

**33. Object Oriented Architecture:** ◆ Yes ◇ No

**Please describe additional features:** System development libraries, Object oriented toolkit libraries are also available for building extensive applications by the user.

PRODUCT NAME: CARTOCAD

COMPANY/ORGANIZATION

Company Name: Aerosul S/A  
Contact Person(s): Mr. Eloy Allegretti or Mr. A.C. Bogo  
Street Address: Av. Brasilia 5547  
City, State: Curitiba - Parana  
Zip, Country: 81020-010, Brazil  
Phone: 041-346-3553  
Fax: 041-246-2015  
Email: None

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: US \$3,500

5. Complete (fully capable) software system cost: US \$3,500

USER BASE

6. Total number of licensed users: 250

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: 250

8. Year of first installation: 1986

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: direct training

10. Software support available: ☐ Worldwide ☒ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: 50% off

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☒ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware 486 DX2, 66MHz.
20. Devices supported:
- | INPUT   | OUTPUT       |
|---|--------------|
| <input checked="" type="checkbox"/> Digitizers: <u>All</u>        |              |
| <input type="checkbox"/> Frame Grabbers: _____                    | All Plotters |
| <input checked="" type="checkbox"/> Scanners: <u>All</u>          | Available In |
| <input checked="" type="checkbox"/> GPS: <u>All</u>               | The Market   |
| <input checked="" type="checkbox"/> CD-ROM: <u>All</u>            |              |
| <input checked="" type="checkbox"/> Diskette: <u>All</u>          |              |
| <input checked="" type="checkbox"/> Tape: <u>All</u>              |              |
| <input checked="" type="checkbox"/> Displays: _____               |              |
| <input checked="" type="checkbox"/> Film Recorders: _____         |              |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ |              |
| <input checked="" type="checkbox"/> Pen Plotters: _____           |              |
| <input checked="" type="checkbox"/> Ink Jet Printers: <u>All</u>  |              |
| <input checked="" type="checkbox"/> Laser Printers: _____         |              |
| <input type="checkbox"/> Others: _____                            |              |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: Clipper
26. Data Exchange Formats Supported: DXF, TIFF
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:



- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining

- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**Please describe additional features:** Not reported

PRODUCT NAME: Cartographic add-on to Arc/Info

**COMPANY/ORGANIZATION**

Company Name: GeoSystems Global Corporation  
Contact Person(s): Jim Hilliard  
Street Address: 53 West James St.  
City, State: Lancaster, PA  
Zip, Country: 17604, USA  
Phone: 717-393-9707  
Fax: 717-393-7456  
Email: Not reported

**1. Type of product:**

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

**LICENSING/PRICING**

**2. Is the product public domain *or* commercial?**

◆ **Commercial Product**

Licensed by: ☒ User ☒ System ☒ Site ☒ Other: variable

License fee is: ☒ One Time Charge ☒ Other Charge: variable

**3. Turnkey system available (bundled hardware & software):** ☐ Yes ☒ No

**4. Basic (minimal) software system cost:** variable

**5. Complete (fully capable) software system cost:** variable

**USER BASE**

**6. Total number of licensed users:** 1

**7. Number of licensed users by continent:** Africa:                       
Asia:                       
Australia:                       
Europe:                       
North America: 1  
South America:                     

**8. Year of first installation:** 1995

**SUPPORT/UPDATES**

**9. Training available:** ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: custom

**10. Software support available:** ☐ Worldwide ☐ Not Available ☒ Other: custom

**11. Cost of support:** ☐ Included in License ☒ Other: variable

**12. Software updates:** ☐ Annually ☐ Semiannually ☒ Other: variable

**13. Cost of updates:** ☒ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: ESRI Arc/Info supported UNIX platforms.

19. Minimum hardware SUN SPARCstation2, 32MB RAM, Arc/Info software.

20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> Frame Grabbers: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> Scanners: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> GPS: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> CD-ROM: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> Diskette: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> Tape: <u>As supported by Arc/Info</u>	
<input checked="" type="checkbox"/> Displays:	<u>As supported by Arc/Info</u>
<input checked="" type="checkbox"/> Film Recorders:	<u>As supported by Arc/Info</u>
<input checked="" type="checkbox"/> Electrostatic Plotters:	<u>As supported by Arc/Info</u>
<input checked="" type="checkbox"/> Pen Plotters:	<u>As supported by Arc/Info</u>
<input checked="" type="checkbox"/> Ink Jet Printers:	<u>As supported by Arc/Info</u>
<input checked="" type="checkbox"/> Laser Printers:	<u>As supported by Arc/Info</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☒ Other: AML  
☐ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☒ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: As supported by Arc/Info

26. Data Exchange Formats Supported: As supported by Arc/Info

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion   | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Our add-on AML product to Arc/Info provides a set of cartographic tools and techniques for the production of high quality cartographic output.

PRODUCT NAME: COGO/CEAL

COMPANY/ORGANIZATION

Company Name: CLM/Systems, Inc.  
Contact Person(s): C.L. Miller  
Street Address: 5601 Mariner Drive  
City, State: Tampa, FL  
Zip, Country: 33609, USA  
Phone: 813-286-8755  
Fax: 813-286-8993  
Email: clmceal@aol.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Surveying Infrastructure Design

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: contact source

5. Complete (fully capable) software system cost: contact source

USER BASE

6. Total number of licensed users: 5000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 5000 +  
South America: \_\_\_\_\_

8. Year of first installation: 1960

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: contact source

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: Graphics

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☒ PC-OS/2 ☒ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: Intel 486, 16 MB RAM, 500 MB Disk
20. Devices supported:
- | INPUT   | OUTPUT       |
|---|--------------|
| <input checked="" type="checkbox"/> Digitizers: _____             |              |
| <input type="checkbox"/> Frame Grabbers: _____                    |              |
| <input type="checkbox"/> Scanners: _____                          |              |
| <input checked="" type="checkbox"/> GPS: <u>files</u>             |              |
| <input type="checkbox"/> CD-ROM: _____                            |              |
| <input checked="" type="checkbox"/> Diskette: _____               |              |
| <input type="checkbox"/> Tape: _____                              |              |
| <input type="checkbox"/> Displays: _____                          |              |
| <input type="checkbox"/> Film Recorders: _____                    |              |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ | <u>ZEROX</u> |
| <input checked="" type="checkbox"/> Pen Plotters: _____           | <u>HPG</u>   |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       | <u>HP</u>    |
| <input checked="" type="checkbox"/> Laser Printers: _____         | <u>HP</u>    |
| <input type="checkbox"/> Others: _____                            |              |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☒ INFO ☒ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: DXF, DGM
27. If GIS Product: ☒ Vector ☐ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
  - Map Joining

- Image Enhancement

■ Spatial Filtering

- Fourier Analysis
- Multivariate/Statistical Analysis
- Radar Geocoding & Analysis
- Principal Components Analysis
- Density Slicing
- Unsupervised Classification

**Please describe additional features:** contact company

PRODUCT NAME: CRISP

COMPANY/ORGANIZATION

Company Name: ALNA  
Contact Person(s): Tomas Milaknis  
Street Address: Jaksto 13  
City, State: Vilnius  
Zip, Country: 2001, Lithuania  
Phone: 3702-226-572  
Fax: 3702-226-928  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$900 US dollars

5. Complete (fully capable) software system cost: \$1450 US dollars

USER BASE

6. Total number of licensed users: 56

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 56  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 15% per ann

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☒ Russian ☐ Spanish ☒ Other: Lithuanian
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: 486, RAM 4 MB, VGA

20. Devices supported: All Windows supported

### INPUT

### OUTPUT

☒ Digitizers: ALTEK, SUMMAGRAPHS, CALCOMP

☐ Frame Grabbers: \_\_\_\_\_

☐ Scanners: \_\_\_\_\_

☐ GPS: \_\_\_\_\_

☒ CD-ROM: \_\_\_\_\_

☒ Diskette: \_\_\_\_\_

☒ Tape: \_\_\_\_\_

☒ Displays: \_\_\_\_\_

☐ Film Recorders: \_\_\_\_\_

☐ Electrostatic Plotters: \_\_\_\_\_

☒ Pen Plotters: \_\_\_\_\_

☒ Ink Jet Printers: \_\_\_\_\_

☒ Laser Printers: \_\_\_\_\_

☒ Others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_

☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DXF, TXT

27. If GIS Product: ☒ Vector ☐ Raster

28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

- Map Display & Query
- Change Map Projections
- Datum Changes
- Vector Overlay Analysis
- Surface Modeling
- Buffer generation
- Line-of-Sight Analysis
- Map Joining

- Image Enhancement
- Spatial Filtering
- Fourier Analysis
- Multivariate/Statistical Analysis
- Radar Geocoding & Analysis
- Principal Components Analysis
- Density Slicing
- Unsupervised Classification

**Please describe additional features:** not reported.

PRODUCT NAME: Data-on-the-Map 3.0

**COMPANY/ORGANIZATION**

Company Name: ChartWrite AB  
Contact Person(s): Dr. B. Gyllstroem  
Street Address: Ideon  
City, State: 223 70 Lund  
Zip, Country: Sweden  
Phone: 046-46-168930  
Fax: 046-46-129879  
Email: info@chartwrite.se

**1. Type of product:**

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain *or* commercial?**

◆ **Commercial Product**

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

**3. Turnkey system available (bundled hardware & software):** ☐ Yes ☒ No

**4. Basic (minimal) software system cost:** US \$795

**5. Complete (fully capable) software system cost:** US \$795

**USER BASE**

**6. Total number of licensed users:** 100

**7. Number of licensed users by continent:** Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 100  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

**8. Year of first installation:** 1995

**SUPPORT/UPDATES**

**9. Training available:** ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

**11. Cost of support:** ☒ Included in License ☐ Other: \_\_\_\_\_

**12. Software updates:** ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

**13. Cost of updates:** ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Swedish
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: not reported
20. Devices supported:
- | INPUT   | OUTPUT                                    |
|---|---|
| <input checked="" type="checkbox"/> Digitizers: <u>All Windows 3.x compatible devices</u>                             |   |
| <input type="checkbox"/> Frame Grabbers: _____  |   |
| <input checked="" type="checkbox"/> Scanners: <u>All Windows 3.x compatible devices</u>                               |   |
| <input checked="" type="checkbox"/> GPS: <u>Generic format used by Trimble. Easy to adapt to other ASCII formats.</u> |   |
| <input type="checkbox"/> CD-ROM: _____  |   |
| <input type="checkbox"/> Diskette: _____  |   |
| <input type="checkbox"/> Tape: _____  |   |
| <input type="checkbox"/> Displays: _____  | _____                                     |
| <input type="checkbox"/> Film Recorders: _____  | _____                                     |
| <input type="checkbox"/> Electrostatic Plotters: _____  | _____                                     |
| <input type="checkbox"/> Pen Plotters: _____  | _____                                     |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____   | <u>All Windows 3.x compatible devices</u> |
| <input checked="" type="checkbox"/> Laser Printers: _____   | <u>All Windows 3.x compatible devices</u> |
| <input type="checkbox"/> Others: _____  | _____                                     |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: MS Access
26. Data Exchange Formats Supported: DXF (lines)
27. If GIS Product: ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li>■ Topographical Structuring</li><li><input type="checkbox"/> Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li><input type="checkbox"/> Map Composition/Generation</li><li><input type="checkbox"/> Raster-Vector Conversion</li><li><input type="checkbox"/> Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query</li><li>■ Change Map Projections</li><li>■ Datum Changes</li><li>■ Vector Overlay Analysis</li><li>■ Surface Modeling</li><li>■ Buffer generation</li><li><input type="checkbox"/> Line-of-Sight Analysis</li><li>■ Map Joining</li></ul> |
|---|---|

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering</li><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul> |
|---|---|

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◆ Yes ◇ No

**33. Object Oriented Architecture:** ◆ Yes ◇ No

**Please describe additional features:** Raster can be used as layers and as background for digitizing/  
updating vector maps. We also provide the run-time version DM-MapServer SDK free of charge. The DM-  
MapServer is used for designing tailored applications, including real-time GPS or geo-archive applications  
(searching/updating information about sites, plants, subsidiaries, artifacts, etc.).

PRODUCT NAME: Dimple

COMPANY/ORGANIZATION

Company Name: Cherwell Scientific Publishing, Inc.  
Contact Person(s): not reported  
Street Address: 744 San Antonio Road, Suite 27A  
City, State: Palo Alto, CA  
Zip, Country: 94303, USA  
Phone: 415-852-0720  
Fax: 415-852-0723  
Email: not reported

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$1,795

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☒ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: Macintosh, hard drive with 1.44 MB floppy drive, System 6.05 or later, 4 MB RAM.
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers: _____                |        |
| <input type="checkbox"/> Frame Grabbers: _____            |        |
| <input type="checkbox"/> Scanners: _____                  |        |
| <input type="checkbox"/> GPS: _____                       |        |
| <input type="checkbox"/> CD-ROM: _____                    |        |
| <input type="checkbox"/> Diskette: _____                  |        |
| <input type="checkbox"/> Tape: _____                      |        |
| <input type="checkbox"/> Displays: _____                  | _____  |
| <input type="checkbox"/> Film Recorders: _____            | _____  |
| <input type="checkbox"/> Electrostatic Plotters: _____    | _____  |
| <input type="checkbox"/> Pen Plotters: _____              | _____  |
| <input type="checkbox"/> Ink Jet Printers: _____          | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____ | _____  |
| <input type="checkbox"/> Others: _____                    | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☒ Other: IOL  
☐ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** DIMPLE is an interactive image processing system for the earth sciences. Complete with a range of images and multispectral analysis tools, including classifications, image registration, and rectification. Ideal for people working with remotely sensed images on the Mac. Now available for the Power Mac which runs up to 10/15 times faster than on 68K Macs. Please call for a free demo.



PRODUCT NAME: DM-MapServer SDK

COMPANY/ORGANIZATION

Company Name: ChartWrite AB  
Contact Person(s): Dr. B. Gyllstroem  
Street Address: Ideon  
City, State: 223 70 Lund  
Zip, Country: Sweden  
Phone: 046-46-168930  
Fax: 046-46-129879  
Email: info@chartwrite.se

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: DLL/OEM

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: No license fee

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: nil

5. Complete (fully capable) software system cost: nil

USER BASE

6. Total number of licensed users: 50

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 50  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: If required, based on individual agreements

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☐ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: same as for Data-on-the-Map 3.0, 386, 33Mhz
20. Devices supported:
- | INPUT  | OUTPUT |
|--|--------|
| <input type="checkbox"/> Digitizers: _____             |        |
| <input type="checkbox"/> Frame Grabbers: _____         |        |
| <input type="checkbox"/> Scanners: _____               |        |
| <input type="checkbox"/> GPS: _____                    |        |
| <input type="checkbox"/> CD-ROM: _____                 |        |
| <input type="checkbox"/> Diskette: _____               |        |
| <input type="checkbox"/> Tape: _____                   |        |
| <input type="checkbox"/> Displays: _____               | _____  |
| <input type="checkbox"/> Film Recorders: _____         | _____  |
| <input type="checkbox"/> Electrostatic Plotters: _____ | _____  |
| <input type="checkbox"/> Pen Plotters: _____           | _____  |
| <input type="checkbox"/> Ink Jet Printers: _____       | _____  |
| <input type="checkbox"/> Laser Printers: _____         | _____  |
| <input type="checkbox"/> Others: _____                 | _____  |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☒ Other: Application examples  
available in Visual  
Basic and C++ code.
- ☐ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_
- ☐ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: Imports map data in \*.stf-format (Data-on-the-Map 3.0)

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** Raster can be used as map layers (\*.stf-format). The user may design applications in any environment which can call our DLL, for example Visual Basic or C++. The DM-MapServer SDK is the run-time version of Data-on-the-Map 3.0.

**PRODUCT NAME:** DRAGON/ips (Academic Edition & Professional Suite)

**COMPANY/ORGANIZATION**

**Company Name:** Goldin-Rudahl Sysrms, Inc.  
**Contact Person(s):** Dr. Sally E. Goldin  
**Street Address:** 6 University Drive #213  
**City, State:** Amherst, MA  
**Zip, Country:** 01059, USA  
**Phone:** 413-253-7340  
**Fax:** 413-549-6401  
**Email:** 3086210@mcimail.com

**1. Type of product:**

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain *or* commercial?**

◆ **Commercial Product**

**Licensed by:** ☒ User ☐ System ☒ Site ☒ Other: Willing to consider special  
arrangements for non-profit  
organizations

**License fee is:** ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

**3. Turnkey system available (bundled hardware & software):** ◆ Yes ◇ No

**4. Basic (minimal) software system cost:** \$995 Academic Edition / \$400 each if eight seats or more

**5. Complete (fully capable) software system cost:** \$1795 (Dragon Professional Suite)

**USER BASE**

**6. Total number of licensed users:** 500 (seats - most installations are at university labs so will have  
more users than seats)

**7. Number of licensed users by continent:** Africa: 25 estimated  
Asia: 200 estimated  
Australia: 50 estimated  
Europe: 150 estimated  
North America: 50 estimated  
South America: 25 estimated

**8. Year of first installation:** 1988

**SUPPORT/UPDATES**

**9. Training available:** ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

**11. Cost of support:** ☒ Included in License ☐ Other: \_\_\_\_\_

12. **Software updates:** ☐ Annually ☐ Semiannually ☒ Other: Irregularly, as available

13. **Cost of updates:** ☒ Included in License or Maintenance Contract ☒ Other: \$250 per site, per  
For Professional Suite update

#### DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☐ Electronic Files

15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☒ Other: Malay,  
Czech

16. **Online help:** ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A

17. **User interface:** ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: Interactive Response Panels

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. **Minimum hardware configuration:** For DOS Version: 286 or better computer, 2 MB RAM, VGA  
or SVGA display - mouse and math coprocessor recommended.

20. **Devices supported:**

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>HP Scanjet Series</u>	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: <u>Any</u>	
<input checked="" type="checkbox"/> Diskette: <u>Any</u>	<u>Same</u>
<input checked="" type="checkbox"/> Tape: <u>Any device with an ASPI SCSI interface</u>	<u>Same</u>
<input checked="" type="checkbox"/> Displays:	<u>VGA, SVGA, also TIGA, TARGA,</u> <u>XGA etc.</u>
<input checked="" type="checkbox"/> Film Recorders:	<u>(Via TIF, TGA or PCX files)</u>
<input type="checkbox"/> Electrostatic Plotters:	_____
<input type="checkbox"/> Pen Plotters:	_____
<input checked="" type="checkbox"/> Ink Jet Printers:	<u>Most HP inkjet printers</u> <u>Canon Bubblejet series</u>
<input checked="" type="checkbox"/> Laser Printers:	<u>PostScript, also HP Laserjet</u>
<input checked="" type="checkbox"/> Others: _____	<u>Color PostScript support</u>

21. **Source code available:** ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

◇ No

**24. Integrated Data Base Management System:** ◇ Yes ◆ No

**25. Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** many

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement             |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering             |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                         |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis        |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis               |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing               |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification   |

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

**Please describe additional features:** Provides full, 24-bit color display. Starting in January '96, all  
purchasers will receive both MS DOS and Windows versions. Designed for R/S - GIS education. Highly  
interactive, clearly structured, extensive help, comprehensive documentation. Designed for internationalization.  
Supports unicode (ISO 10646) standard for representing world-wide character sets.

PRODUCT NAME: Eagle Point GIS Software (FMS)

COMPANY/ORGANIZATION

Company Name: Eagle Point Software  
Contact Person(s): John Biver or David Hawkins  
Street Address: 4131 Westmark Drive  
City, State: Dubuque, IA  
Zip, Country: 52002-2627, USA  
Phone: 800-678-6565; outside the USA 319-556-8392  
Fax: 319-556-5321  
Email: strakab@netins.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☒ Other: Situational

License fee is: ☐ One Time Charge ☒ Other Charge: Situational

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: 20,000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1983

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Situational

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Situational

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☒ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☒ Other: Italian
16. **Online help:** ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. **Minimum hardware configuration:** 386 with math coprocessor, 16MB RAM, 500 MB hard drive;  
Recommend 486/66 or higher (pentium), 24 MB RAM
20. **Devices supported:**
- | INPUT   | OUTPUT |
|---|--------|
| <input checked="" type="checkbox"/> Digitizers: _____       |        |
| <input checked="" type="checkbox"/> Frame Grabbers: _____   |        |
| <input checked="" type="checkbox"/> Scanners: _____         |        |
| <input type="checkbox"/> GPS: _____                         |        |
| <input checked="" type="checkbox"/> CD-ROM: _____           |        |
| <input checked="" type="checkbox"/> Diskette: _____         |        |
| <input type="checkbox"/> Tape: _____                        |        |
| <input type="checkbox"/> Displays: _____                    | _____  |
| <input type="checkbox"/> Film Recorders: _____              | _____  |
| <input type="checkbox"/> Electrostatic Plotters: _____      | _____  |
| <input type="checkbox"/> Pen Plotters: _____                | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____ | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____   | _____  |
| <input type="checkbox"/> Others: _____                      | _____  |
21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. **Batch capability:** ☒ Yes ☐ No
23. **Linkable libraries for data structure access:** ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. **Integrated Data Base Management System:** ☐ Yes ☒ No
25. **Data Base File Types Supported:** ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☐ Sybase ☒ Other: Informix, ODBC
26. **Data Exchange Formats Supported:** not reported
27. **If GIS Product:** ☒ Vector ☐ Raster
28. **GIS Functionality:**



- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☒ Topographical Structuring
- ☒ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

- ☒ Map Display & Query
  - ☒ Change Map Projections
  - ☒ Datum Changes
  - ☐ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☒ Buffer generation
- ☐ Line-of-Sight Analysis
  - ☒ Map Joining

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**Please describe additional features:** not reported.

PRODUCT NAME: EASI/PACE

COMPANY/ORGANIZATION

Company Name: PCI  
Contact Person(s): Mr. Mike Pastushak  
Street Address: 50 West Wilmot Street  
City, State: Richmond Hill, Ontario  
Zip, Country: L4B 1M6, Canada  
Phone: 905-764-0614  
Fax: 905-764-9604  
Email: pastushak@pci.on.ca

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Remote Sensing

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$1,000

5. Complete (fully capable) software system cost: \$50,000

USER BASE

6. Total number of licensed users: 2,000

7. Number of licensed users by continent: Africa: 100  
Asia: 300  
Australia: 100  
Europe: 400  
North America: 900  
South America: 200

8. Year of first installation: 1982

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☒ MacIntosh ☒ PC-OS/2 ☒ OS/2 WARP  
☒ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN, SGI, HP, DEC, IBM, Data General.

19. Minimum hardware configuration: 500 MB disk, 16 MB RAM

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: \_\_\_\_\_
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Source code available: ☒ Yes: ☐ C ☒ C++ ☒ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☒ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: 45 raster and vector formats

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching
- ☐ Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
- Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Neural Network Classification, Satellite and Airborne Orthophoto generation and DEM extraction, real-time 3-D image fly-through.

PRODUCT NAME: EPPL7 GIS

COMPANY/ORGANIZATION

Company Name: Land Management Information Center  
Contact Person(s): Ken Pekarek  
Street Address: 658 Cedar Street  
City, State: St. Paul, MN  
Zip, Country: 55155, USA  
Phone: 612-296-1201  
Fax: 612-296-1212  
Email: epp17@lmic.state.mn.us

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$500 or less

5. Complete (fully capable) software system cost: \$500 or less

USER BASE

6. Total number of licensed users: 2,387

7. Number of licensed users by continent: Africa: 1  
Asia: 37  
Australia: 77  
Europe: 35  
North America: 2237  
South America: 0

8. Year of first installation: 1975

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☒ Other: on site

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \$75 / year

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: as developed

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \$125 max / copy

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: 80286, VGA monitor, 2 MB RAM, 40 MB hard disk

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: most supported
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☒ GPS: reads ASCII files
- ☒ CD-ROM: files direct from CD
- ☒ Diskette: sold on 3.5 disks only
- ☐ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

VESA driver compatible

HP Deskjet Series, HP Paintjets  
Cannon, Epson  
PCL language compatible

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☒ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DXF, TIFF, ERDAS, TARGA

27. If GIS Product: ☐ Vector ☒ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Map Digitizing</li><li><input checked="" type="checkbox"/> Digital Map Editing</li><li><input type="checkbox"/> Topographical Structuring</li><li><input type="checkbox"/> Network Flow Analysis</li><li><input checked="" type="checkbox"/> Cell-based (Raster) Modeling</li><li><input checked="" type="checkbox"/> Map Composition/Generation</li><li><input checked="" type="checkbox"/> Raster-Vector Conversion</li><li><input type="checkbox"/> Edgematching</li></ul> | <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Map Display &amp; Query<ul style="list-style-type: none"><li><input type="checkbox"/> Change Map Projections</li><li><input type="checkbox"/> Datum Changes</li><li><input type="checkbox"/> Vector Overlay Analysis</li></ul></li><li><input checked="" type="checkbox"/> Surface Modeling</li><li><input checked="" type="checkbox"/> Buffer generation</li><li><input checked="" type="checkbox"/> Line-of-Sight Analysis</li><li><input checked="" type="checkbox"/> Map Joining</li></ul> |
|---|--|

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input checked="" type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input checked="" type="checkbox"/> Raster GIS Modeling</li><li><input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input checked="" type="checkbox"/> Spatial Filtering<ul style="list-style-type: none"><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul></li></ul> |
|---|---|

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

**Please describe additional features:** Special discounts for Academic, student, and non-profit groups.  
Discounted site licenses available also.

PRODUCT NAME: ER Mapper

COMPANY/ORGANIZATION

Company Name: Earth Resource Mapping  
Contact Person(s): Andrew Nickerson  
Street Address: 4370 La Jolla Village Drive  
City, State: San Diego, CA  
Zip, Country: 92122-1253, USA  
Phone: 619-558-4709  
Fax: 619-558-2657  
Email: queries@ermusa.com

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: over 300

7. Number of licensed users by continent: Africa: 5%  
Asia: 25%  
Australia: 10%  
Europe: 25%  
North America: 25%  
South America: 10%

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: separate fee

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: separate fee



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: mainly driven by toolbars

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun/Solaris, Sun/OS.  
IBM RS6000, Silicon Graphics, DEC Alpha/OSF, HP 9000 to name a few.

19. Minimum hardware configuration: PC: 486/33 (Intel compatible), 16 MB RAM, 600 MB free  
hard disk, 8 bit graphics, CDROM drive, mouse, WindowsNT/95; Sun: Sparc5, GX graphics, Solaris  
2.3, 600 MB hard disk space, CDROM drive, mouse; SGI: Indy PC, R4600 processor, 32 MB RAM,  
IRIX 5.2, 600 MB free disk space, CDROM drive; HP: HP 9000-735, 8 bit display, 32 MB RAM, HP-  
UX 9.01, 600 MB free disk space, CDROM drive; DEC: Alpha AXP-300, 8 bit display, 32 MB RAM,  
OSF/1 v1.3, 600 MB free disk space, CDROM drive.

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: limited only to file format
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: limited only to file format
- ☒ GPS: limited only to file format
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☐ Ink Jet Printers: \_\_\_\_\_
- ☐ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

We support over 240 harcopy  
output devices

21. Source code available: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☒ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

◇ No

**24. Integrated Data Base Management System:** ◆ Yes ◇ No

**25. Data Base File Types Supported:**    ☒ dBase ☐ Foxbase ☐ IMS ☒ INFO ☒ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** over 150 file formats supported (tiff, .dxf, ascii etc.)

**27. If GIS Product:** ☐ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input checked="" type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ◆ Yes ◇ No

**31. Expert system capability:** ◆ Yes ◇ No

**32. Spatial index supported:** ◇ Yes ◇ No

**33. Object Oriented Architecture:** ◇ Yes ◇ No

**Please describe additional features:** ER Mapper is raster based image processing and map composition tool. We realize the need to integrate GIS and image processing and so have added quite a bit of GIS functionality. but by no means are we a GIS. We have strong use in the mineral exploration, oil & gas, and defense communities and are gaining momentum in many other applications as well. The product is a powerful yet easy to use image processing and map composition tool. Earth Resource Mapping prides itself on customer service and satisfaction. We are committed to open standards. The list of import/export formats, hardcopy devices, and functionality is continually updated to help make ER Mapper the easiest, most powerful, and most cost effective solution for the end users map production and image processing needs.

PRODUCT NAME: ERDAS IMAGINE

COMPANY/ORGANIZATION

Company Name: ERDAS, Inc.  
Contact Person(s): Stanley E. Quinn  
Street Address: 2801 Buford Highway N.E., Ste 300  
City, State: Atlanta, GA  
Zip, Country: 30329-2137, USA  
Phone: 404-248-9000  
Fax: 404-248-9400  
Email: quinn@erdas.com

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Contact local distributor

5. Complete (fully capable) software system cost: Modular system-depends on full configuration

USER BASE

6. Total number of licensed users: 10,000 +

7. Number of licensed users by continent: Africa: 300  
Asia: 1500  
Australia: 200  
Europe: 2100  
North America: 5400  
South America: 500

8. Year of first installation: 1981

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: contact local distributor

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: contact ERDAS

19. Minimum hardware configuration: contact ERDAS

20. Devices supported:

### INPUT

- ☒ Digitizers: contact ERDAS
- ☒ Frame Grabbers: contact ERDAS
- ☒ Scanners: contact ERDAS
- ☒ GPS: contact ERDAS
- ☒ CD-ROM: contact ERDAS
- ☒ Diskette: contact ERDAS
- ☒ Tape: contact ERDAS
- ☒ Displays:
- ☒ Film Recorders:
- ☒ Electrostatic Plotters:
- ☒ Pen Plotters:
- ☒ Ink Jet Printers:
- ☒ Laser Printers:
- ☒ Others: \_\_\_\_\_

### OUTPUT

- contact ERDAS
- contact ERDAS
- contact ERDAS
- contact ERDAS
- contact ERDAS
- contact ERDAS
- contact ERDAS
- contact ERDAS

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☒ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: ASCII

26. Data Exchange Formats Supported: many, contact ERDAS

27. If GIS Product: ☒ Vector ☐ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching
- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
- Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** contact ERDAS

PRODUCT NAME: Express Document Retrieval System

COMPANY/ORGANIZATION

Company Name: Scanning America, Inc.  
Contact Person(s): Tim Hunsinger  
Street Address: 1007 1/2 Massachusetts St.  
City, State: Lawrence, KS  
Zip, Country: 66044, USA  
Phone: 913-749-7471  
Fax: 913-749-7213  
Email: info@scanamerica.com

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$995

5. Complete (fully capable) software system cost: varies

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: negotiated

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_
19. Minimum hardware configuration: 486 with 8 MB RAM
20. Devices supported:
- | INPUT  | OUTPUT |
|--|--------|
| <input checked="" type="checkbox"/> Digitizers:_____             |        |
| <input type="checkbox"/> Frame Grabbers:_____                    |        |
| <input checked="" type="checkbox"/> Scanners:_____               |        |
| <input type="checkbox"/> GPS:_____                               |        |
| <input checked="" type="checkbox"/> CD-ROM:_____                 |        |
| <input type="checkbox"/> Diskette:_____                          |        |
| <input type="checkbox"/> Tape:_____                              |        |
| <input checked="" type="checkbox"/> Displays:_____               | _____  |
| <input type="checkbox"/> Film Recorders:_____                    | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters:_____ | _____  |
| <input type="checkbox"/> Pen Plotters:_____                      | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers:_____       | _____  |
| <input checked="" type="checkbox"/> Laser Printers:_____         | _____  |
| <input type="checkbox"/> Others:_____                            | _____  |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**■ Map Display & Query**

- ☐ Change Map Projections
- ☐ Datum Changes
- ☐ Vector Overlay Analysis
- ☐ Surface Modeling
- ☐ Buffer generation
- ☐ Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Scanning America provides complete scanning and vector conversion services as well as integration of custom document management systems.



PRODUCT NAME: FACET

COMPANY/ORGANIZATION

Company Name: Facet Decision Systems, Inc.  
Contact Person(s): Scott Akenhead  
Street Address: 187 - 916 West Broadway  
City, State: Vancouver, BC  
Zip, Country: V5Z 1K7, Canada  
Phone: 604-739-7703  
Fax: 604-739-7753  
Email: info@facet.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: object-oriented modelling

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$23,500 US dollars

5. Complete (fully capable) software system cost: \$45,000 (approx.)

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa: 0  
Asia: 10%  
Australia: 0  
Europe: 10%  
North America: 80%  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 10% of license, annual

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: 10% annual

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: uses spreadsheet metaphor

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN only: Solaris on  
Intel coming.

19. Minimum hardware configuration: Sun Sparc Station 5, 64 MB RAM, 1 GB disk

20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: <u>standard</u>	
<input checked="" type="checkbox"/> Diskette: <u>DOS and SUN</u>	
<input checked="" type="checkbox"/> Tape: <u>all types</u>	
<input type="checkbox"/> Displays: _____	_____
<input type="checkbox"/> Film Recorders: _____	_____
<input type="checkbox"/> Electrostatic Plotters: _____	_____
<input checked="" type="checkbox"/> Pen Plotters: _____	<u>IGDS, HPGL2</u>
<input checked="" type="checkbox"/> Ink Jet Printers: _____	<u>HPGL2</u>
<input checked="" type="checkbox"/> Laser Printers: _____	<u>Postscript and HP LJ series</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☒ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: everything

26. Data Exchange Formats Supported: all common types, anything as required

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:

- |  |                           |
|--|---------------------------|
| <input type="checkbox"/> Map Digitizing        | ■ Map Display & Query     |
| ■ Digital Map Editing                          | ■ Change Map Projections  |
| ■ Topographical Structuring                    | ■ Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis | ■ Vector Overlay Analysis |
| ■ Cell-based (Raster) Modeling                 | ■ Surface Modeling        |
| ■ Map Composition/Generation                   | ■ Buffer generation       |
| ■ Raster-Vector Conversion                     | ■ Line-of-Sight Analysis  |
| ■ Edgematching                                 | ■ Map Joining             |

29. Image Processing Functionality:

- |                             |                                     |
|-----------------------------|-------------------------------------|
| ■ Interactive Display       | ■ Image Enhancement                 |
| ■ Geometric Rectification   | ■ Spatial Filtering                 |
| ■ Image Mosaicking          | ■ Fourier Analysis                  |
| ■ Radiometric Corrections   | ■ Multivariate/Statistical Analysis |
| ■ Raster GIS Modeling       | ■ Radar Geocoding & Analysis        |
| ■ Hardcopy Map Comp./Anno.  | ■ Principal Components Analysis     |
| ■ Filtering                 | ■ Density Slicing                   |
| ■ Supervised Classification | ■ Unsupervised Classification       |

30. Multi-user Capability: ♦ Yes ♦ No

31. Expert system capability: ♦ Yes ♦ No

32. Spatial index supported: ♦ Yes ♦ No

33. Object Oriented Architecture: ♦ Yes ♦ No

Please describe additional features: Oracle 7 Spatial Data Option. Facet provides highest value use of existing investment in data.

PRODUCT NAME: FlexScreen

COMPANY/ORGANIZATION

Company Name: IntelliGIS, Inc.  
Contact Person(s): Diane Garey  
Street Address: 12946 Dairy Ashford, Suite 250  
City, State: Sugar Land, TX  
Zip, Country: 77478, USA  
Phone: 713-240-2700  
Fax: 713-240-2714  
Email: dianeg@igis.com

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Please request quotation

5. Complete (fully capable) software system cost: Please request quotation

USER BASE

6. Total number of licensed users: 5

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 5  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN Microsystems

19. Minimum hardware configuration: Please contact vendor

20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input type="checkbox"/> CD-ROM: _____	
<input type="checkbox"/> Diskette: _____	
<input type="checkbox"/> Tape: _____	
<input type="checkbox"/> Displays: _____	_____
<input type="checkbox"/> Film Recorders: _____	_____
<input type="checkbox"/> Electrostatic Plotters: _____	_____
<input type="checkbox"/> Pen Plotters: _____	_____
<input type="checkbox"/> Ink Jet Printers: _____	_____
<input type="checkbox"/> Laser Printers: _____	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Versant

26. Data Exchange Formats Supported: not reported

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** FlexScreen is a GIS-based ticket screening and management system for central One-Call facilities and field engineers and line spotters. It provides automated and manual ticket screening, route finding, message dispatching and archiving functions.

PRODUCT NAME: FPMS - Flood Plain Management System

COMPANY/ORGANIZATION

Company Name: CartoLogix Corporation  
Contact Person(s): Kenneth R. DePodesta, Peter Nimmrichter  
Street Address: 3215 North Service Road, P.O. Box 220  
City, State: Burlington, Ontario  
Zip, Country: L7R 3Y2, Canada  
Phone: 905-332-6488  
Fax: 905-335-1414  
Email: cartolgx@ftn.net

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$10000

5. Complete (fully capable) software system cost: \$20,000

USER BASE

6. Total number of licensed users: 4

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 4  
South America: \_\_\_\_\_

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: As required

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Not core technology

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: dialogues

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 486/Pentium CPU, 16-32 MB RAM, 1 GB disk storage,  
SVGA display
20. Devices supported:
- | INPUT  | OUTPUT                         |
|--|--------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>as supported by AutoCAD</u>     |                                |
| <input checked="" type="checkbox"/> Frame Grabbers: <u>external to application</u> |                                |
| <input checked="" type="checkbox"/> Scanners: <u>hardware dependent</u>            |                                |
| <input checked="" type="checkbox"/> GPS: <u>external to application</u>            |                                |
| <input checked="" type="checkbox"/> CD-ROM: <u>hardware dependent</u>              |                                |
| <input checked="" type="checkbox"/> Diskette: <u>hardware dependent</u>            |                                |
| <input checked="" type="checkbox"/> Tape: <u>hardware dependent</u>                |                                |
| <input checked="" type="checkbox"/> Displays:                                      | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Film Recorders:                                | <u>hardware dependent</u>      |
| <input checked="" type="checkbox"/> Electrostatic Plotters:                        | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Pen Plotters:                                  | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Ink Jet Printers:                              | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Laser Printers:                                | <u>as supported by AutoCAD</u> |
| <input type="checkbox"/> Others: _____   | _____                          |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☒ Sybase ☒ Other: Informix, Rbase, ODBC compliant
26. Data Exchange Formats Supported: DXF
27. If GIS Product: ☒ Vector ☐ Raster



**28. GIS Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li>■ Topographical Structuring</li><li>■ Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li>■ Map Composition/Generation</li><li>■ Raster-Vector Conversion</li><li>■ Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query<ul style="list-style-type: none"><li>■ Change Map Projections</li><li>■ Datum Changes</li><li>■ Vector Overlay Analysis</li><li>■ Surface Modeling</li><li>■ Buffer generation</li><li>■ Line-of-Sight Analysis</li><li>■ Map Joining</li></ul></li></ul> |
|---|---|

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>■ Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering<ul style="list-style-type: none"><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul></li></ul> |
|--|--|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** The Water Surface Profile program HEC-2 (from the US Army Corps of Engineers) is integrated with AutoCAD, ADE, Spatialist, Rbase, QuickSURF and CADOverlay for the comprehensive management of flood plain data in a seamless, continuous map environment.

PRODUCT NAME: FRK

COMPANY/ORGANIZATION

Company Name: FORMATEK INC.  
Contact Person(s): Pierre-Paul Grondin  
Street Address: 1365, rue Galilee, bureau 100  
City, State: Quebec  
Zip, Country: G1P 4G4, Canada  
Phone: 418-681-7344  
Fax: 418-681-8779  
Email: formatek@riq.qc.ca

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☒ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: 2000\$

5. Complete (fully capable) software system cost: 2000\$

USER BASE

6. Total number of licensed users: Over 200

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 20  
North America: 190  
South America: 10

8. Year of first installation: not reported

SUPPORT/UPDATES

9. Training available: ☐ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: 500\$ per annum

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☐ Other: \_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 386 - 8 MB of RAM
20. Devices supported:
- | INPUT   | OUTPUT                        |
|---|-------------------------------|
| <input type="checkbox"/> Digitizers: _____  |                               |
| <input checked="" type="checkbox"/> Frame Grabbers: <u>Bravado 16 from Truevision</u> |                               |
| <input type="checkbox"/> Scanners: _____  |                               |
| <input checked="" type="checkbox"/> GPS: <u>Any x, y data via serial port</u>         |                               |
| <input checked="" type="checkbox"/> CD-ROM: _____                                     |                               |
| <input checked="" type="checkbox"/> Diskette: _____                                   |                               |
| <input type="checkbox"/> Tape: _____  |                               |
| <input checked="" type="checkbox"/> Displays: _____                                   |                               |
| <input type="checkbox"/> Film Recorders: _____  |                               |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____                     | <u>Any Windows compatible</u> |
| <input type="checkbox"/> Pen Plotters: _____  |                               |
| <input type="checkbox"/> Ink Jet Printers: _____                                      |                               |
| <input type="checkbox"/> Laser Printers: _____  |                               |
| <input type="checkbox"/> Others: _____  |                               |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_  
☒ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☐ Sybase ☒ Other: Access
26. Data Exchange Formats Supported: DXF, DGN
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

■ Map Digitizing

- ☐ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

■ Map Display & Query

- Change Map Projections
- Datum Changes
- Vector Overlay Analysis
- ☐ Surface Modeling
- ☐ Buffer generation
- Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◆ Yes ◇ No

**33. Object Oriented Architecture:** ◆ Yes ◇ No

**Please describe additional features:** FRK software lets workstation users display analog maps stored on videodiscs along with digital images, vectors and text data stored on the computer's hard disk.

PRODUCT NAME: GenaMap

COMPANY/ORGANIZATION

Company Name: Genasys II, Inc.  
Contact Person(s): not reported  
Street Address: 1501 South Lemay Ave.  
City, State: Fort Collins, CO  
Zip, Country: 80524, USA  
Phone: 970-493-0035  
Fax: 970-493-0966  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2,000

5. Complete (fully capable) software system cost: \$12,000

USER BASE

6. Total number of licensed users: 3,800

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1985

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: % of sale price

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☒ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☒ Japanese ☒ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☒ Other: Thai,  
Korean
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: HP, SUN, IBM, DEC, Silicon  
Graphics, SCO, Motif or Open Windows

19. Minimum hardware configuration: 16 MB RAM, 500 MB disk, 256 colors

20. Devices supported:

### INPUT

- ☒ Digitizers: Calcomp, Altek, GTCO, Numonics,  
Summa, Hitachi
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: All through TIFF
- ☒ GPS: All through ASCII
- ☒ CD-ROM: All
- ☒ Diskette: 3.5"
- ☒ Tape: 4mm, 8mm
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

\_\_\_\_\_

HP, Calcomp, Versatec,  
Rastergraphics

All with HPGL2

HP

HP

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☒ Sybase ☒ Other: Informix, Ingres, Interbase, SQL/400

**26. Data Exchange Formats Supported:** DGN, DXF, DLG, MOSS, many others

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input checked="" type="checkbox"/> Image Enhancement      |
| <input checked="" type="checkbox"/> Geometric Rectification  | <input type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking         | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling      | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☒ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Not reported

PRODUCT NAME: GEO AXSES

COMPANY/ORGANIZATION

Company Name: AXSES, Inc.  
Contact Person(s): Ian Clayton  
Street Address: Boutiliers Point  
City, State: Nova Scotia  
Zip, Country: BoJ 1G0, Canada  
Phone: 902-826-2440  
Fax: 902-826-7274  
Email: iclayton@fox.nstn.ca

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \$499 - 1999

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$499 GIS

5. Complete (fully capable) software system cost: \$1999

USER BASE

6. Total number of licensed users: 60

7. Number of licensed users by continent: Africa: 0  
Asia: 5  
Australia: 0  
Europe: 5  
North America: 50  
South America: 2

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \$199

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \$199



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_
19. Minimum hardware configuration: DC 640K
20. Devices supported:
- | INPUT  | OUTPUT           |
|--|------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>Calcomp, HP</u>         |                  |
| <input checked="" type="checkbox"/> Frame Grabbers: <u>Windows, Pizzaz</u> |                  |
| <input checked="" type="checkbox"/> Scanners: <u>many - TIFF, BMP, PLX</u> |                  |
| <input checked="" type="checkbox"/> GPS: <u>many</u>                       |                  |
| <input checked="" type="checkbox"/> CD-ROM: <u>many</u>                    |                  |
| <input checked="" type="checkbox"/> Diskette: <u>all</u>                   |                  |
| <input checked="" type="checkbox"/> Tape: <u>many</u>                      |                  |
| <input checked="" type="checkbox"/> Displays:                              | <u>VGA/SVGA</u>  |
| <input checked="" type="checkbox"/> Film Recorders:                        | <u>AVI, TPEG</u> |
| <input type="checkbox"/> Electrostatic Plotters:                           |                  |
| <input checked="" type="checkbox"/> Pen Plotters:                          | <u>HP</u>        |
| <input checked="" type="checkbox"/> Ink Jet Printers:                      | <u>HP</u>        |
| <input checked="" type="checkbox"/> Laser Printers:                        | <u>HP</u>        |
| <input type="checkbox"/> Others:_____                                      |                  |
21. Source code available: ☒ Yes: ☒ C ☒ C++ ☒ FORTRAN ☐ Pascal ☒ Other: VBASIC, FOXPRO  
☐ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☒ Vector ☐ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ☐ Yes ☒ No

**31. Expert system capability:** ☒ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**Please describe additional features:** not reported

PRODUCT NAME: GeoCity

COMPANY/ORGANIZATION

Company Name: CLEMESSY S.A.  
Contact Person(s): Otmar Galicien, Marcel Degliame  
Street Address: 18 rue de Thann  
City, State: 68057 Mulhouse  
Zip, Country: France  
Phone: 33-89-32-31-36  
Fax: 33-89-32-32-07  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: 100 000 - 150 000 FRF (1 user)

5. Complete (fully capable) software system cost: 200 000 - 250 000 FRF (1 user)

USER BASE

6. Total number of licensed users: 140

7. Number of licensed users by continent: Africa: 2  
Asia: \_\_\_\_\_  
Australia: 13  
Europe: 125  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Maintenance contract

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Easily  
multilingual
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: User Friendly Windows

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Motif

19. Minimum hardware configuration: Sun SPARC 5, 64 MB RAM, 1 GB disc
20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>OceGraphics, Calcomp,</u> <u>Summegraphics</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>Agfa, HP...</u>	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: <u>DAT, EXABYTE...</u>	
<input checked="" type="checkbox"/> Displays: _____	<u>Sun, Xterminal (1024 x 748 mini)</u>
<input type="checkbox"/> Film Recorders: _____	_____
<input checked="" type="checkbox"/> Electrostatic Plotters: _____	<u>PI 636, Calcomp</u>
<input checked="" type="checkbox"/> Pen Plotters: _____	<u>Oce, Calcomp (HPGL)</u>
<input checked="" type="checkbox"/> Ink Jet Printers: _____	<u>XL 300, NovaJet, HP650C</u> <u>(Postscript, HPGL)</u>
<input checked="" type="checkbox"/> Laser Printers: _____	<u>HP, Apple, (Postscript)</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☒ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** ASCII, ARC/Info, MOSS, DXF, Michelin, APIC

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query    |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes          |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input type="checkbox"/> Vector Overlay Analysis           |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                  |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation      |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis            |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                       |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification             | <input type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking         | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                 | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** not reported

PRODUCT NAME: GEOKEY

COMPANY/ORGANIZATION

Company Name: GEODAN  
Contact Person(s): Madeleine Verspuy, Heidi van der Vloet  
Street Address: Jan Luijkenstraat 10  
City, State: 1071 CM Amsterdam  
Zip, Country: The Netherlands  
Phone: 020-6757705  
Fax: 020-6762794  
Email: madelein@geodan.nl or heidi@geodan.nl

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: (Geographical) Meta-Information Management System

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: DFI 30.000

5. Complete (fully capable) software system cost: Dfl 30.000

USER BASE

6. Total number of licensed users: 10 (big governmental associations)

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 10  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: Netherlands, Poland...

11. Cost of support: ☐ Included in License ☒ Other: DFI 5.000 p/year

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Dutch  
Polish
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Not reported

19. Minimum hardware configuration: PC 80486 with 8 MB free space

20. Devices supported:

### INPUT

### OUTPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: able to read all kinds of scanned  
pictures
- ☐ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☐ Ink Jet Printers: \_\_\_\_\_
- ☐ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_

◆ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_

◆ No

24. Integrated Data Base Management System: ☐ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Ingres, Access 1.1, Access 2.0,

**26. Data Exchange Formats Supported:** the database with the meta data can be written as a Ingres or Oracle script.

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** GEOKEY is a meta information system, in which all kinds of information about information can be stored and viewed (GEOKEY select) and edited (GEOKEY edit). Every organization using GEOKEY can customize it to its own wishes and data structures. GEOKEY is the ideal tool for managing meta info and make info available to every user in an organization. Users of GEOKEY select can apply a number of selection methods on the available meta info, to quickly find the info they are looking for. Once the info is found, there are possibilities to start the GIS the data was generated in, from GEOKEY select, using the found information. GEOKEY is not built solely for one kind of geographical information, but can be used to store info on all kinds of GIS information and even non-GIS information. It's possible to adapt the meta data structure to any standards you wish to use.



PRODUCT NAME: GeoLink Mapping System

COMPANY/ORGANIZATION

Company Name: GeoResearch, Inc.  
Contact Person(s): Darrel E. Peterson  
Street Address: 115 North Broadway  
City, State: Billings, MT  
Zip, Country: 59101, USA  
Phone: 406-248-6771  
Fax: 406-248-6770  
Email: geolink@gri.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: GPS/GIS

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2,495

5. Complete (fully capable) software system cost: \$7,500

USER BASE

6. Total number of licensed users: 1000 +

7. Number of licensed users by continent: Africa: 6%  
Asia: 15%  
Australia: 4%  
Europe: 10%  
North America: 50%  
South America: 15%

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Annual program

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_
19. Minimum hardware configuration: 486 for laptop or notebook computer
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers:_____             |        |
| <input type="checkbox"/> Frame Grabbers:_____         |        |
| <input type="checkbox"/> Scanners:_____               |        |
| <input checked="" type="checkbox"/> GPS:_____         |        |
| <input type="checkbox"/> CD-ROM:_____                 |        |
| <input type="checkbox"/> Diskette:_____               |        |
| <input type="checkbox"/> Tape:_____                   |        |
| <input type="checkbox"/> Displays:_____               | _____  |
| <input type="checkbox"/> Film Recorders:_____         | _____  |
| <input type="checkbox"/> Electrostatic Plotters:_____ | _____  |
| <input type="checkbox"/> Pen Plotters:_____           | _____  |
| <input type="checkbox"/> Ink Jet Printers:_____       | _____  |
| <input type="checkbox"/> Laser Printers:_____         | _____  |
| <input type="checkbox"/> Others:_____                 | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☐ Yes ☐ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☐ Vector ☐ Raster
28. GIS Functionality:

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

- ☐ Map Display & Query
  - Change Map Projections
  - Datum Changes
  - ☐ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

- ☐ Image Enhancement

- ☐ Spatial Filtering

- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**Please describe additional features:** not reported

PRODUCT NAME: GEOMAX Software

COMPANY/ORGANIZATION

Company Name: GEOMAX International, Inc.  
Contact Person(s): Jean-Guy Laplante  
Street Address: 80, Jean-Proulx  
City, State: Hull, Quebec  
Zip, Country: J8Z 1W1, Canada  
Phone: 819-770-9631  
Fax: 819-770-9267  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☒ Other Charge: Maintenance

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2,500 per user

5. Complete (fully capable) software system cost: \$15,000 / user

USER BASE

6. Total number of licensed users: +600

7. Number of licensed users by continent: Africa: 10  
Asia: 5  
Australia: 75  
Europe: 160  
North America: 350  
South America: 0

8. Year of first installation: 1984

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 12% to 18% of the license value

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: IBM - SUN and all PCs with "Linux".

19. Minimum hardware configuration: 16 MEG of RAM, 500 MEG of disc, high resolution graphic capabilities

20. Devices supported:

### INPUT

- ☒ Digitizers: most
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: standard interfaces
- ☐ GPS: \_\_\_\_\_
- ☒ CD-ROM: standard interfaces
- ☒ Diskette: standard interfaces
- ☒ Tape: standard interfaces
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

- standard interfaces
- \_\_\_\_\_
- standard interfaces
- most standard interfaces
- most standard interfaces
- most standard interfaces
- \_\_\_\_\_

21. Source code available: ☐ Yes ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_

◆ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_

◆ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☒ Other: Informix and Netbase

**26. Data Exchange Formats Supported:** not reported

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Interactive Display     | <input type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification | <input type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking        | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections            | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling     | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.           | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                          | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification          | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** not reported

PRODUCT NAME: GeoPilot

COMPANY/ORGANIZATION

Company Name: IntelliGIS, Inc.  
Contact Person(s): Diane Garey  
Street Address: 12946 Dairy Ashford, Suite 250  
City, State: Sugar Land, TX  
Zip, Country: 77478, USA  
Phone: 713-240-2700  
Fax: 713-240-2714  
Email: dianeg@igis.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Please request quotation

5. Complete (fully capable) software system cost: Please request quotation

USER BASE

6. Total number of licensed users: 30

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 30  
South America: \_\_\_\_\_

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN Microsystems

19. Minimum hardware configuration: Sparcstation, 16 MB RAM, hard disk, tape drive

20. Devices supported:

### INPUT

### OUTPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☐ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PostScript, CGM formats

PostScript, CGM formats

PostScript, CGM formats

PostScript, CGM formats

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: Zycor

27. If GIS Product: ☒ Vector ☒ Raster



**28. GIS Functionality:**

- |  |   |
|--|---|
| <input type="checkbox"/> Map Digitizing                        | <input checked="" type="checkbox"/> Map Display & Query |
| <input type="checkbox"/> Digital Map Editing                   | <input type="checkbox"/> Change Map Projections         |
| <input type="checkbox"/> Topographical Structuring             | <input type="checkbox"/> Datum Changes                  |
| <input type="checkbox"/> Network Flow Analysis                 | <input type="checkbox"/> Vector Overlay Analysis        |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling               |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input type="checkbox"/> Buffer generation              |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis         |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                    |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** GeoPilot is a petroleum data browser for the enterprise wide desktop. It enhances the company's information management strategy by allowing users throughout the organization to spatially retrieve, visualize, query, interpret and model data.

PRODUCT NAME: Geo/SQL R4.2

**COMPANY/ORGANIZATION**

Company Name: Geo/SQL Corporation  
Contact Person(s): Jim Franklin or Ally Bailey  
Street Address: 9035 Wadsworth Pkwy, Suite 3300  
City, State: Broomfield, CO  
Zip, Country: 80021-4541, USA  
Phone: 303-940-9266  
Fax: 303-940-9576  
Email: sales@g5.com

**1. Type of product:**

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain *or* commercial?**

◆ **Commercial Product**

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

**3. Turnkey system available (bundled hardware & software):** ◇ Yes ◆ No

**4. Basic (minimal) software system cost:** \$1500

**5. Complete (fully capable) software system cost:** \$9500

**USER BASE**

**6. Total number of licensed users:** 900

**7. Number of licensed users by continent:** Africa: 0  
Asia: 10  
Australia: 5  
Europe: 70  
North America: 800  
South America: 15

**8. Year of first installation:** 1987

**SUPPORT/UPDATES**

**9. Training available:** ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

**11. Cost of support:** ☐ Included in License ☒ Other: ≤ 15% (varies with software purchased)

**12. Software updates:** ☒ Annually ☐ Semiannually ☐ Other: Generally

**13. Cost of updates:** ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
- If UNIX/X-Windows, list vendors and window managers supported: SunOS/Solaris (open windows)
19. Minimum hardware configuration: 386, 20+ MHz, ACAD - Support peripheral devices, 12 MB RAM.
20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>ACAD - supported</u>	
<input type="checkbox"/> Frame Grabbers: <u>3rd party</u>	
<input type="checkbox"/> Scanners: <u>NA</u>	
<input type="checkbox"/> GPS: <u>NA</u>	
<input type="checkbox"/> CD-ROM: <u>NA</u>	
<input type="checkbox"/> Diskette: <u>NA</u>	
<input type="checkbox"/> Tape: <u>NA</u>	
<input type="checkbox"/> Displays:	<u>NA</u>
<input type="checkbox"/> Film Recorders:	<u>NA</u>
<input type="checkbox"/> Electrostatic Plotters:	<u>ACAD supported</u>
<input type="checkbox"/> Pen Plotters:	<u>ACAD supported</u>
<input type="checkbox"/> Ink Jet Printers:	<u>ACAD supported</u>
<input type="checkbox"/> Laser Printers:	<u>ACAD supported</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☒ IMS ☒ INFO ☐ Intergraph  
☒ Lotus ☒ Oracle ☒ Paradox ☒ Progress  
☒ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DWG, DXF, GXP, ARC/Info Generate

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Map Digitizing            | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing       | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring | <input checked="" type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis                | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling         | <input checked="" type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation           | <input checked="" type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion             | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input checked="" type="checkbox"/> Edgematching              | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** Geo/SQL is a sophisticated, open and easy-to-use GIS/mapping system that combines a seamless, multi-user spatial database with the power of SQL and the ease-of-use of AutoCAD. It can be used standalone and in conjunction with other industry standard software to provide complete GIS functionality, including data collection, data management, coordinate geometry, cartographic transformation, spatial overlay, statistical analysis, network analysis, raster to vector integration, reporting, etc.

PRODUCT NAME: GIS base

COMPANY/ORGANIZATION

Company Name: Tekla Oy  
Contact Person(s): Risto Sajaniemi  
Street Address: Koronakatu 1  
City, State: 02210 Espoo  
Zip, Country: Finland  
Phone: 358-0-8879500  
Fax: 358-0-8039489  
Email: rs@tekla.fi

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: 4th GL for GIS

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other:

License fee is: ☒ One Time Charge ☐ Other Charge:

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: depends on HW and application area

5. Complete (fully capable) software system cost: depends on HW and no. of users

USER BASE

6. Total number of licensed users: >1000

7. Number of licensed users by continent: Africa: <50  
Asia: <100  
Australia:  
Europe: >1000  
North America: >100%  
South America:

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other:

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: Europe

11. Cost of support: ☐ Included in License ☒ Other: requires maintenance agreement

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: as agreed

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: Motif or Windows GUI

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: DEC, HP, IBM, SUN / MWM

19. Minimum hardware configuration: depends on application

20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>several</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>several</u>	
<input checked="" type="checkbox"/> GPS: <u>several</u>	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: <u>all supported by hw</u>	
<input checked="" type="checkbox"/> Tape: <u>all supported by hw</u>	
<input checked="" type="checkbox"/> Displays:	<u>all supported by hw</u>
<input type="checkbox"/> Film Recorders:	_____
<input checked="" type="checkbox"/> Electrostatic Plotters:	<u>several</u>
<input checked="" type="checkbox"/> Pen Plotters:	<u>several</u>
<input checked="" type="checkbox"/> Ink Jet Printers:	<u>several</u>
<input checked="" type="checkbox"/> Laser Printers:	<u>several</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☒ Other: any full function RDBMS

26. Data Exchange Formats Supported: DXF, DGN, TIFF, etc.

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li>■ Topographical Structuring</li><li>■ Network Flow Analysis</li><li>■ Cell-based (Raster) Modeling</li><li>■ Map Composition/Generation</li><li><input type="checkbox"/> Raster-Vector Conversion</li><li>■ Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query<ul style="list-style-type: none"><li>■ Change Map Projections</li><li>■ Datum Changes</li><li>■ Vector Overlay Analysis</li><li><input type="checkbox"/> Surface Modeling</li><li><input type="checkbox"/> Buffer generation</li><li>■ Line-of-Sight Analysis</li><li>■ Map Joining</li></ul></li></ul> |
|---|---|

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering<ul style="list-style-type: none"><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul></li></ul> |
|---|--|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** GISbase is a registered trademark of Tekla Oy. GISbase is a complete tool set for implementing GIS applications.

PRODUCT NAME: GisPlus

COMPANY/ORGANIZATION

Company Name: Caliper Corporation  
Contact Person(s): Graham Barrowman  
Street Address: 1172 Beacon Street  
City, State: Newton, MA  
Zip, Country: 02161, USA  
Phone: 617-527-4700  
Fax: 617-527-5113  
Email: graham@caliper.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2995

5. Complete (fully capable) software system cost: \$2995

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: N/A  
Asia: N/A  
Australia: N/A  
Europe: N/A  
North America: N/A  
South America: N/A

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: annual maintenance fee

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: toolbar/toolbox

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 80486, 8 MB RAM, CD-ROM drive
20. Devices supported:
- | INPUT   | OUTPUT                                     |
|---|--|
| <input checked="" type="checkbox"/> Digitizers: <u>Wintab compliant</u> |  |
| <input type="checkbox"/> Frame Grabbers: _____                          |  |
| <input checked="" type="checkbox"/> Scanners: <u>Windows compliant</u>  |  |
| <input checked="" type="checkbox"/> GPS: <u>Trimble mobile GPS</u>      |  |
| <input checked="" type="checkbox"/> CD-ROM: _____                       |  |
| <input checked="" type="checkbox"/> Diskette: _____                     |  |
| <input checked="" type="checkbox"/> Tape: _____                         |  |
| <input checked="" type="checkbox"/> Displays: _____                     | <u>high resolution</u>                     |
| <input type="checkbox"/> Film Recorders: _____                          | _____                                      |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____       | _____                                      |
| <input checked="" type="checkbox"/> Pen Plotters: _____                 | <u>any Windows compliant output device</u> |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____             | _____                                      |
| <input checked="" type="checkbox"/> Laser Printers: _____               | _____                                      |
| <input type="checkbox"/> Others: _____                                  | _____                                      |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☒ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☒ Sybase ☒ Other: any ODBC compliant DBMS
26. Data Exchange Formats Supported: ARC/INFO, MAP/INFO, ATLAS, DXF, OS NTF
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - ☐ Map Joining

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**Please describe additional features:** GIS development kit - supports the creation of map server applications, macro programs and custom user interfaces. Support for OLE 2.0 and open database connectivity (ODBC).

PRODUCT NAME: GOTHIC ADE

COMPANY/ORGANIZATION

Company Name: Laser-Scan Ltd.  
Contact Person(s): Nick George  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: nickge@lsl.co.uk

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☒ Other: runtime licenses when sold on

License fee is: ☒ One Time Charge ☒ Other Charge: royalties

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: POA

5. Complete (fully capable) software system cost: POA

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa:                       
Asia:                       
Australia:                       
Europe:                       
North America:                       
South America:                     

8. Year of first installation: not reported

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☒ Other: consultancy/training

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:                     

11. Cost of support: ☒ Included in License ☒ Other:                     

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: as available

13. Cost of updates: ☒ Included in License or Maintenance Contract ☒ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Hangul -  
(Korean) ; suitable for localising
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: user development

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Motif on HP, DEC, IBM and SUN

19. Minimum hardware configuration: 32 MB and 100 MB swap space. Recommend 64 MB and  
200 MB swap space.

20. Devices supported:

### INPUT

- ☒ Digitizers: ALTEK AC40, Calcomp 9100, plus  
others by user customization or developed  
to order.

☐ Frame Grabbers: \_\_\_\_\_

- ☒ Scanners: as supported by the platform

- ☒ GPS: as supported by the platform but requires  
user customization to integrate

- ☒ CD-ROM: as supported by the platform

- ☒ Diskette: as supported by the platform

- ☒ Tape: as supported by the platform

- ☒ Displays:

☐ Film Recorders:

- ☒ Electrostatic Plotters:

- ☒ Pen Plotters:

- ☒ Ink Jet Printers:

- ☒ Laser Printers:

☐ Others: \_\_\_\_\_

### OUTPUT

up to 24 bit color

many - as supported by the platform

many - as supported by the platform

as supported by the platform

as supported by the platform

21. Source code available: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_

☐ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN

☐ Pascal ☒ Other: through toolkit use

☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

**25. Data Base File Types Supported:**    ☐ dBase   ☐ Foxbase   ☐ IMS   ☐ INFO   ☐ Intergraph  
   ☐ Lotus   ☐ Oracle   ☐ Paradox   ☐ Progress  
   ☐ Sybase   ☐ Other: INGRES

**26. Data Exchange Formats Supported:** Lots

**27. If GIS Product:**   ☒ Vector   ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification  | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking                    | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                 | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:**   ☒ Yes   ☐ No

**31. Expert system capability:**   ☐ Yes   ☒ No

**32. Spatial index supported:**   ☒ Yes   ☐ No

**33. Object Oriented Architecture:**   ☒ Yes   ☐ No

**Please describe additional features:** GOTHIC ADE is a GIS development environment. Any of the  
supported features could be developed by VARS and existing features could be enhanced by VARS.

PRODUCT NAME: GRADIS - GIS

COMPANY/ORGANIZATION

Company Name: Strassle Informations Systeme AG  
Contact Person(s): Dr. Peter Ladstatter  
Street Address: Kanalstrasse 33  
City, State: 8152 Glattbrugg  
Zip, Country: Switzerland  
Phone: 41-1-828-81-11  
Fax: 41-1-828-82-12  
Email: lad@sti.ch

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: 30.000 US\$

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: 30.000 US\$

5. Complete (fully capable) software system cost: 44.000 US\$

USER BASE

6. Total number of licensed users: 120

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 120  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1991

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: Europe

11. Cost of support: ☐ Included in License ☒ Other: maintenance contract

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: as available

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☒ Russian ☐ Spanish ☒ Other: Finnish
16. Online help: ☒ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☐ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: HP, IBM, Motif

19. Minimum hardware configuration: 64 MB memory, 1 GB disk

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: Aristo
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: \_\_\_\_\_
- ☐ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: on demand

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- ☐ Edgematching
- Map Display & Query
  - Change Map Projections
  - ☐ Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification
- Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Fully integrated relational DBMS interactive raster/vector conversion, on-screen digitizing, seamless geographic database, extended data dictionary for spatial modelling.



**PRODUCT NAME: GRASS (Geographic Resources Analysis Support System)**

**COMPANY/ORGANIZATION**

**Company Name:** \_\_\_\_\_ (1) CERL: Construction Engineering Research Laboratories); or  
\_\_\_\_\_ (2) Rutgers: Remote Sensing Center  
**Contact Person(s):** \_\_\_\_\_ (1) None  
\_\_\_\_\_ (2) Dr. Scott Madry  
**Street Address:** \_\_\_\_\_ (1) P.O. Box 4005  
\_\_\_\_\_ (2) Cook College, Dept. Environmental Resources  
**City, State:** \_\_\_\_\_ (1) Champaign, IL  
\_\_\_\_\_ (2) New Brunswick, NJ  
**Zip, Country:** \_\_\_\_\_ (1) 61826-9005, USA  
\_\_\_\_\_ (2) 08903, USA  
**Phone:** \_\_\_\_\_ (2) 908-932-9631  
**Fax:** \_\_\_\_\_ (2) 908-932-8644  
**Email:** \_\_\_\_\_ not reported

**1. Type of product:**

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain or commercial?**

◆ **Public Domain:**

**Costs for Distribution/Documentation:** available FTP: moon.cecer.army.mil

**3. Turnkey system available (bundled hardware & software):** ☐ Yes ☐ No

**4. Basic (minimal) software system cost:** none

**5. Complete (fully capable) software system cost:** none

**USER BASE**

**6. Total number of licensed users:** 3000

**7. Number of licensed users by continent:** Africa: 10  
Asia: 20  
Australia: 50  
Europe: 400  
North America: 2500  
South America: 20

**8. Year of first installation:** 1990

**SUPPORT/UPDATES**

**9. Training available:** ☒ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

**11. Cost of support:** ☐ Included in License ☐ Other: None

12. **Software updates:** ☒ Annually ☐ Semiannually ☐ Other:\_\_\_\_\_
13. **Cost of updates:** ☐ Included in License or Maintenance Contract ☒ Other: None

#### DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. **Online help:** ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: LINUX for PCs

If UNIX/X-Windows, list vendors and window managers supported: Open WIN, Motif, X-Windows

19. **Minimum hardware configuration:** UNIX workstation or PC box running LINUX or Windows-NT on a PC box.

20. **Devices supported:**

##### INPUT

- ☒ Digitizers: Several
- ☒ Frame Grabbers: GRASS and UNIX XV
- ☒ Scanners: GRASS
- ☒ GPS: Trimble
- ☒ CD-ROM: Yes
- ☒ Diskette: Yes
- ☒ Tape: Yes
- ☒ Displays:
- ☐ Film Recorders:
- ☒ Electrostatic Plotters:
- ☒ Pen Plotters:
- ☒ Ink Jet Printers:
- ☒ Laser Printers:
- ☐ Others:\_\_\_\_\_

##### OUTPUT

- All UNIX X-Windows
- Versatec, HP, all PostScript
- Calcomp, others
- PostScript
- PostScript
- \_\_\_\_\_

21. **Source code available:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☐ Yes ☒ No not yet, GRASS 5.0 - yes

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: all SQL and specifically Informix

**26. Data Exchange Formats Supported:** ARC, ASCII, DXF, USGS, DLG, SPEGETTI

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections              | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis                   |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☒ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Integrated GIS/Image Processing, public domain. NOTE: Releases have been done through CERL and FTP site. Information is done through Rutgers University.

GRASS INFO HTML: <http://www.cecer.army.mil/GRASS.main.html>

GLOBAL DATA HTML: <http://www.cecer.army.mil/WWWDEMO/global-apps/global>

**PRODUCT NAME: GRASS (Geographic Resources Analysis Support System)**

**COMPANY/ORGANIZATION**

**Company Name:** \_\_\_\_\_ (1) CERL: Construction Engineering Research Laboratories); or  
\_\_\_\_\_ (2) Rutgers: Remote Sensing Center  
**Contact Person(s):** \_\_\_\_\_ (1) None  
\_\_\_\_\_ (2) Dr. Scott Madry  
**Street Address:** \_\_\_\_\_ (1) P.O. Box 4005  
\_\_\_\_\_ (2) Cook College, Dept. Environmental Resources  
**City, State:** \_\_\_\_\_ (1) Champaign, IL  
\_\_\_\_\_ (2) New Brunswick, NJ  
**Zip, Country:** \_\_\_\_\_ (1) 61826-9005, USA  
\_\_\_\_\_ (2) 08903, USA  
**Phone:** \_\_\_\_\_ (2) 908-932-9631  
**Fax:** \_\_\_\_\_ (2) 908-932-8644  
**Email:** \_\_\_\_\_ not reported

**1. Type of product:**

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

**LICENSING/PRICING**

**2. Is the product public domain or commercial?**

◆ **Public Domain:**

**Costs for Distribution/Documentation:** available FTP: moon.cecer.army.mil

**3. Turnkey system available (bundled hardware & software):** ☐ Yes ☐ No

**4. Basic (minimal) software system cost:** none

**5. Complete (fully capable) software system cost:** none

**USER BASE**

**6. Total number of licensed users:** 3000

**7. Number of licensed users by continent:** Africa: 10  
Asia: 20  
Australia: 50  
Europe: 400  
North America: 2500  
South America: 20

**8. Year of first installation:** 1990

**SUPPORT/UPDATES**

**9. Training available:** ☒ Courses ☒ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

**10. Software support available:** ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

**11. Cost of support:** ☐ Included in License ☐ Other: None

12. **Software updates:** ☒ Annually ☐ Semiannually ☐ Other:\_\_\_\_\_
13. **Cost of updates:** ☐ Included in License or Maintenance Contract ☒ Other: None

#### DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. **Online help:** ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other:\_\_\_\_\_

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: LINUX for PCs

If UNIX/X-Windows, list vendors and window managers supported: Open WIN, Motif, X-Windows

19. **Minimum hardware configuration:** UNIX workstation or PC box running LINUX or Windows-NT on a PC box.

20. **Devices supported:**

##### INPUT

- ☒ Digitizers: Several
- ☒ Frame Grabbers: GRASS and UNIX XV
- ☒ Scanners: GRASS
- ☒ GPS: Trimble
- ☒ CD-ROM: Yes
- ☒ Diskette: Yes
- ☒ Tape: Yes
- ☒ Displays:
- ☐ Film Recorders:
- ☒ Electrostatic Plotters:
- ☒ Pen Plotters:
- ☒ Ink Jet Printers:
- ☒ Laser Printers:
- ☐ Others:\_\_\_\_\_

##### OUTPUT

- All UNIX X-Windows
- Versatec, HP, all PostScript
- Calcomp, others
- PostScript
- PostScript
- \_\_\_\_\_

21. **Source code available:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☐ Yes ☒ No not yet, GRASS 5.0 - yes

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: all SQL and specifically Informix

**26. Data Exchange Formats Supported:** ARC, ASCII, DXF, USGS, DLG, SPEGETTI

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections              | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis                   |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☒ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Integrated GIS/Image Processing, public domain. NOTE: Releases have been done through CERL and FTP site. Information is done through Rutgers University.

GRASS INFO HTML: <http://www.cecer.army.mil/GRASS.main.html>

GLOBAL DATA HTML: <http://www.cecer.army.mil/WWWDEMO/global-apps/global>

PRODUCT NAME: GWN - GIS

COMPANY/ORGANIZATION

Company Name: Scientific Software Group  
Contact Person(s): Susan Hardy  
Street Address: 11118 Sweetwood Lane  
City, State: Oakton, VA  
Zip, Country: 22124, USA  
Phone: 703-620-9214  
Fax: 703-620-6793  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$4,000

5. Complete (fully capable) software system cost: \$4,000

USER BASE

6. Total number of licensed users: 500

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: After 90 days - Maintenance contract available -  
Approx. \$300 per year

12. Software updates: ☒ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. **Cost of updates:** ☒ Included in License or Maintenance Contract ☐ Other:\_\_\_\_\_

#### DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files

15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_

16. **Online help:** ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A

17. **User interface:** ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun, Apollo, and Intergraph  
Workstations.

19. **Minimum hardware** 386 with 8 MB RAM

20. **Devices supported:**

INPUT	OUTPUT
<input type="checkbox"/> Digitizers:_____	
<input type="checkbox"/> Frame Grabbers:_____	
<input checked="" type="checkbox"/> Scanners:_____	
<input type="checkbox"/> GPS:_____	
<input checked="" type="checkbox"/> CD-ROM:_____	
<input checked="" type="checkbox"/> Diskette:_____	
<input checked="" type="checkbox"/> Tape:_____	
<input type="checkbox"/> Displays:	_____
<input type="checkbox"/> Film Recorders:	_____
<input type="checkbox"/> Electrostatic Plotters:	_____
<input checked="" type="checkbox"/> Pen Plotters:	_____
<input checked="" type="checkbox"/> Ink Jet Printers:	_____
<input checked="" type="checkbox"/> Laser Printers:	_____
<input type="checkbox"/> Others:_____	_____

21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☒ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress



☐ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** not reported

**27. If GIS Product:** ☐ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input checked="" type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** none reported

PRODUCT NAME: HDMS - Hydrogeological Data Management System

COMPANY/ORGANIZATION

Company Name: CartoLogix Corporation  
Contact Person(s): Kenneth R. DePodesta, Peter Nimmrichter  
Street Address: 10 Kingsbridge Garden Circle, Suite 702  
City, State: Mississauga, Ontario  
Zip, Country: L5R 3K6, Canada  
Phone: 905-568-8621  
Fax: 905-568-8623  
Email: cartolgx@ftn.net

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$15000

5. Complete (fully capable) software system cost: \$25000

USER BASE

6. Total number of licensed users: 1

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 1  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: As required

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Not core technology

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: dialogues

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 486/Pentium CPU, 16-32 MB RAM, 1 GB disk storage,  
SVGA display
20. Devices supported:
- | INPUT  | OUTPUT                         |
|--|--------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>as supported by AutoCAD</u>     |                                |
| <input checked="" type="checkbox"/> Frame Grabbers: <u>external to application</u> |                                |
| <input checked="" type="checkbox"/> Scanners: <u>hardware dependent</u>            |                                |
| <input checked="" type="checkbox"/> GPS: <u>external to application</u>            |                                |
| <input checked="" type="checkbox"/> CD-ROM: <u>hardware dependent</u>              |                                |
| <input checked="" type="checkbox"/> Diskette: <u>hardware dependent</u>            |                                |
| <input checked="" type="checkbox"/> Tape: <u>hardware dependent</u>                |                                |
| <input checked="" type="checkbox"/> Displays:                                      | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Film Recorders:                                | <u>hardware dependent</u>      |
| <input checked="" type="checkbox"/> Electrostatic Plotters:                        | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Pen Plotters:                                  | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Ink Jet Printers:                              | <u>as supported by AutoCAD</u> |
| <input checked="" type="checkbox"/> Laser Printers:                                | <u>as supported by AutoCAD</u> |
| <input type="checkbox"/> Others: _____   | _____                          |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☒ Sybase ☒ Other: Informix, RBase, ODBC compliant
26. Data Exchange Formats Supported: DXF
27. If GIS Product: ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion   | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Interactive Display | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification        | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking               | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections        | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling            | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.       | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                      | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification      | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** AutoCAD, ADE, Spatialist, ORACLE, and QuickSURF are integrated for the management of hydrogeological graphical/tabular data in a seamless map environment. Data draw/access capabilities for spatial/attribute query, analysis and linkage to external programs such as GMS.

PRODUCT NAME: IDRISI

COMPANY/ORGANIZATION

Company Name: The Clark Labs - IDRISI Project  
Contact Person(s): Michele Fulk  
Street Address: Clark University - 950 Main St.  
City, State: Worcester, MA  
Zip, Country: 01610-1477, USA  
Phone: 508-793-7526  
Fax: 508-793-8842  
Email: idrisi@vax.clarku.edu

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$990 commercial, \$495 gov't/acad/nonprofit

5. Complete (fully capable) software system cost: \$990, \$495

USER BASE

6. Total number of licensed users: 15000

7. Number of licensed users by continent: Africa: 500  
Asia: 1000  
Australia: 2000  
Europe: 3500  
North America: 7500  
South America: 500

8. Year of first installation: 1987

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: Workbooks

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \$75 per year

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: at material cost

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☒ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 8 bit graphics, 4 MB RAM, 386 processor with math coprocessor support (DX series chip).
20. Devices supported:
- | INPUT   | OUTPUT                          |
|---|---------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>Kurta: IS/ONE, XLC; Altek: AC31LiteLine</u><br><u>Calcomp: Drawing Board II, III, Estimat;</u><br><u>Summagraphics: Summagrid IV, Summa-</u><br><u>sketch III; GTCO: T5-4 format;</u><br><u>Numonics: GridMaster Flexible, Graphic</u><br><u>Master II</u> |                                 |
| <input type="checkbox"/> Frame Grabbers: _____  |                                 |
| <input type="checkbox"/> Scanners: _____  |                                 |
| <input type="checkbox"/> GPS: _____   |                                 |
| <input type="checkbox"/> CD-ROM: _____  |                                 |
| <input type="checkbox"/> Diskette: _____  |                                 |
| <input type="checkbox"/> Tape: _____  |                                 |
| <input type="checkbox"/> Displays: _____  |                                 |
| <input type="checkbox"/> Film Recorders: _____  |                                 |
| <input type="checkbox"/> Electrostatic Plotters: _____  |                                 |
| <input type="checkbox"/> Pen Plotters: _____  |                                 |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____   | <u>Any supported by Windows</u> |
| <input checked="" type="checkbox"/> Laser Printers: _____   | <u>Any supported by Windows</u> |
| <input type="checkbox"/> Others: _____  |                                 |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No

**25. Data Base File Types Supported:**    ☒ dBase   ☒ Foxbase   ☐ IMS   ☐ INFO   ☐ Intergraph  
   ☐ Lotus   ☐ Oracle   ☐ Paradox   ☐ Progress  
   ☐ Sybase   ☒ Other: Access (Microsoft)

**26. Data Exchange Formats Supported:** DLG, DXF, many software-specific formats

**27. If GIS Product:**   ☒ Vector   ☒ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query    |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes          |
| <input type="checkbox"/> Network Flow Analysis                   | <input type="checkbox"/> Vector Overlay Analysis           |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling       |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation      |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis |
| <input type="checkbox"/> Edgematching                            | <input type="checkbox"/> Map Joining                       |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                             |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis                   |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:**   ♦ Yes   ♦ No

**31. Expert system capability:**   ♦ Yes   ♦ No

**32. Spatial index supported:**   ♦ Yes   ♦ No

**33. Object Oriented Architecture:**   ♦ Yes   ♦ No

**Please describe additional features:** Tools for Spatial Decision Support, Time Series Analysis and Uncertainty Analysis. Sold on a non-profit basis.

PRODUCT NAME: IGIS

COMPANY/ORGANIZATION

Company Name: Laser-Scan Ltd.  
Contact Person(s): Phil Murfitt  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: not reported

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☐ Other: concurrent user

License fee is: ☒ One Time Charge ☐ Other Charge:                     

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: subject to requirements

5. Complete (fully capable) software system cost: subject to requirements

USER BASE

6. Total number of licensed users: 7

7. Number of licensed users by continent: Africa:                       
Asia:                       
Australia:                       
Europe: 5  
North America: 2  
South America:                     

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other:                     

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:                     

11. Cost of support: ☐ Included in License ☒ Other: subject to size of installation

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: as available

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other:



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: external 'C' code

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun, DEC Alpha, and OSF/Motif

19. Minimum hardware configuration: 64 MB, 200 MB disc

20. Devices supported:

### INPUT

- ☒ Digitizers: ALTEK, Calcomp
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: REF format
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

\_\_\_\_\_

PostScript devices

PostScript devices

PostScript devices

PostScript devices

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: INGRES

26. Data Exchange Formats Supported: NTF, ISIF, DXF, ARC/Export, DFAD, DTED, SPOT, Landsat,

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- |                                |                           |
|--------------------------------|---------------------------|
| ■ Map Digitizing               | ■ Map Display & Query     |
| ■ Digital Map Editing          | ■ Change Map Projections  |
| ■ Topographical Structuring    | ■ Datum Changes           |
| ■ Network Flow Analysis        | ■ Vector Overlay Analysis |
| ■ Cell-based (Raster) Modeling | ■ Surface Modeling        |
| ■ Map Composition/Generation   | ■ Buffer generation       |
| ■ Raster-Vector Conversion     | ■ Line-of-Sight Analysis  |
| ■ Edgematching                 | ■ Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| ■ Interactive Display                            | ■ Image Enhancement                                    |
| <input type="checkbox"/> Geometric Rectification | ■ Spatial Filtering                                    |
| ■ Image Mosaicking                               | <input type="checkbox"/> Fourier Analysis              |
| <input type="checkbox"/> Radiometric Corrections | ■ Multivariate/Statistical Analysis                    |
| ■ Raster GIS Modeling                            | <input type="checkbox"/> Radar Geocoding & Analysis    |
| ■ Hardcopy Map Comp./Anno.                       | <input type="checkbox"/> Principal Components Analysis |
| ■ Filtering                                      | <input type="checkbox"/> Density Slicing               |
| ■ Supervised Classification                      | ■ Unsupervised Classification                          |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** IGIS is a powerful fully integrated raster and vector processing geographical information system which also combines the most frequently used image processing functionality. IGIS is an effective management tool combining the benefits offered by remote sensing or raster based systems, with the analytical capabilities of a GIS, within a single system.

PRODUCT NAME: ILWIS, the Integrated Land and Water Information System

COMPANY/ORGANIZATION

Company Name: ITC - ILWIS Department  
Contact Person(s): Mr. J.E.C. Melis  
Street Address: 350 Boulevard 1945  
City, State: Enschede  
Zip, Country: 7500 AA, The Netherlands  
Phone: 31-053-487-43-37  
Fax: 31-053-487-44-84  
Email: ilwis@itc.nl

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: Dfl. 7500, -

5. Complete (fully capable) software system cost: Dfl. 7500, -

USER BASE

6. Total number of licensed users: 2100

7. Number of licensed users by continent: Africa: 222  
Asia: 451  
Australia: \_\_\_\_\_  
Europe: 472  
North America: \_\_\_\_\_  
South America: 955

8. Year of first installation: 1988

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: free

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Dfl. 1250, -

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 286, Mathematical Coprocessor, one graphic screen, one monochrome screen
20. Devices supported:
- | INPUT  | OUTPUT                                      |
|--|---|
| <input checked="" type="checkbox"/> Digitizers: <u>ASCII, Stream Mode, RS232C protocol</u> |   |
| <input type="checkbox"/> Frame Grabbers: _____   |   |
| <input checked="" type="checkbox"/> Scanners: <u>any supporting TIFF</u>                   |   |
| <input type="checkbox"/> GPS: _____  |   |
| <input checked="" type="checkbox"/> CD-ROM: <u>as DOS drive</u>                            |   |
| <input checked="" type="checkbox"/> Diskette: <u>as DOS drive</u>                          |   |
| <input checked="" type="checkbox"/> Tape: <u>as DOS drive</u>                              |   |
| <input checked="" type="checkbox"/> Displays:  | <u>SVGA</u>                                 |
| <input type="checkbox"/> Film Recorders:   | _____                                       |
| <input type="checkbox"/> Electrostatic Plotters:   | _____                                       |
| <input checked="" type="checkbox"/> Pen Plotters:  | <u>HPGL, HPGL2</u>                          |
| <input checked="" type="checkbox"/> Ink Jet Printers:                                      | <u>Deskjet 500 - series, HP Paintjet</u>    |
|  | <u>XL 300</u>                               |
| <input checked="" type="checkbox"/> Laser Printers:  | <u>Laser-Jet, PostScript</u>                |
| <input type="checkbox"/> Others: _____   | <u>PostScript Level 2, Epson compatible</u> |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☒ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: ASCII Delimited
26. Data Exchange Formats Supported: Vector, Raster

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- ☐ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching
- Map Display & Query
  - Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- ☐ Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

**Please describe additional features:** GIS and IP combined in one package, Raster-Vector Conversion, Monoplotting Facility

PRODUCT NAME: INFOPORT

COMPANY/ORGANIZATION

Company Name: Gardline Infotech  
Contact Person(s): David Pettit  
Street Address: Burlingham House, Hewett Road, Gapton Hall  
City, State: Great Yarmouth, Norfolk  
Zip, Country: NR31 0NN, UK  
Phone: 01493-442544  
Fax: 01493-441200  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: MIS

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £ 4,000

5. Complete (fully capable) software system cost: £ 7,000

USER BASE

6. Total number of licensed users: 5

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 5  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: annual fee

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: not reported

19. Minimum hardware configuration: 486, 33 MHz, 16 MB RAM, 1/2 GB disk

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: all leading makes supported
- ☒ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: any scanner supported if it produces  
standard formatted images
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☒ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

All standard makes  
via an exhaustive  
library of drivers  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Access

26. Data Exchange Formats Supported: not reported

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching
- Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification
- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◆ Yes ◇ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

**Please describe additional features:** not reported



PRODUCT NAME: INFOSO with Photomap Professional

COMPANY/ORGANIZATION

Company Name: A/O Kiberso  
Contact Person(s): Valery Zolotorev  
Street Address: Aviamotornaya 53  
City, State: Moscow  
Zip, Country: Russia  
Phone: 7-095-273-9216  
Fax: 7-095-273-1937  
Email: not reported

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$10,000

5. Complete (fully capable) software system cost: \$50,000

USER BASE

6. Total number of licensed users: 500

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 500  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: on-site training

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: within former USSR

11. Cost of support: ☐ Included in License ☒ Other: separate support agreement

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: quarterly

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☒ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics - IRIX v5.2

19. Minimum hardware configuration: PC 286

20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>AGFA, EIKONIX, INTERGRAPH</u>	
<input checked="" type="checkbox"/> GPS: <u>Trimble</u>	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: <u>AIC-80; 8 mm</u>	
<input checked="" type="checkbox"/> Displays:	<u>EGA, VGA, SVGA</u>
<input type="checkbox"/> Film Recorders:	_____
<input type="checkbox"/> Electrostatic Plotters:	_____
<input type="checkbox"/> Pen Plotters:	_____
<input type="checkbox"/> Ink Jet Printers:	_____
<input type="checkbox"/> Laser Printers:	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☒ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DXF

27. If GIS Product: ☐ Vector ☒ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- ☐ Network Flow Analysis
- Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- Raster-Vector Conversion
- Edgematching
- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - ☐ Vector Overlay Analysis
  - Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** not reported

PRODUCT NAME: LAMPS

COMPANY/ORGANIZATION

Company Name: Laser-Scan Ltd.  
Contact Person(s): Paul Hardy  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: paul@lsl.co.uk

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Mapping

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1980

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: maintenance contract

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☒ VAX/VMS ☒ Other: Open VMS Alpha
19. Minimum hardware configuration: Smallest VMS Alpha station or VAX station currently sold by DEC.
20. Devices supported:
- | INPUT   | OUTPUT                         |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>ALTEK, Summagraphics, Calcomp</u><br><u>Mutoh, GTCO, Kontron, etc.</u>     |                                |
| <input type="checkbox"/> Frame Grabbers: _____  |                                |
| <input checked="" type="checkbox"/> Scanners: <u>TIFF, Scitex, Anatech, Vidar, Hell, Joyce</u><br><u>Loebl, Scan-Graphics</u> |                                |
| <input type="checkbox"/> GPS: _____   |                                |
| <input checked="" type="checkbox"/> CD-ROM: _____   |                                |
| <input checked="" type="checkbox"/> Diskette: _____   |                                |
| <input checked="" type="checkbox"/> Tape: _____   |                                |
| <input checked="" type="checkbox"/> Displays:   | <u>X-terminals</u>             |
| <input checked="" type="checkbox"/> Film Recorders:   | <u>Barco, Egghergrad</u>       |
| <input checked="" type="checkbox"/> Electrostatic Plotters:   | <u>Calcomp, Versatek, etc.</u> |
| <input checked="" type="checkbox"/> Pen Plotters:   | <u>Calcomp, HPGL</u>           |
| <input checked="" type="checkbox"/> Ink Jet Printers:   | <u>HP, Calcomp</u>             |
| <input checked="" type="checkbox"/> Laser Printers:   | <u>PostScript</u>              |
| <input type="checkbox"/> Others: _____  | _____                          |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☒ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: Rdb, INGRES

**26. Data Exchange Formats Supported:** DXF, ARC/Info, NTF, DCW, DIGIT, DLG, GDB, IMAP, KERN, MAPDATA, MGD, CEDD, MGDS, OSTF, GIF, TDST, DFAD, DTED, I<sup>2</sup>S, DEM, MNT

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input checked="" type="checkbox"/> Image Enhancement      |
| <input checked="" type="checkbox"/> Geometric Rectification  | <input checked="" type="checkbox"/> Spatial Filtering      |
| <input checked="" type="checkbox"/> Image Mosaicking         | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling      | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Terrain model creation and visualization; production flowline control

PRODUCT NAME: LAMPS<sup>2</sup> - Object Oriented Mapping

COMPANY/ORGANIZATION

Company Name: Laser-Scan  
Contact Person(s): Paul Hardy  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: paul@lsl.co.uk

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Mapping

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: 4

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 4  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: maintenance contract

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun Solaris 2 and Motif: DEC Alpha AXP and Motif.

19. Minimum hardware configuration: Workstation with 64 MB memory, 2 GB disk.

20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>Calcomp, Altek</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>TIFF</u>	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: _____	
<input checked="" type="checkbox"/> Displays:	<u>X-terminals</u>
<input checked="" type="checkbox"/> Film Recorders:	<u>Barco, Egghergrad</u>
<input checked="" type="checkbox"/> Electrostatic Plotters:	<u>Calcomp</u>
<input type="checkbox"/> Pen Plotters:	_____
<input checked="" type="checkbox"/> Ink Jet Printers:	<u>HP, Calcomp (PostScript)</u>
<input checked="" type="checkbox"/> Laser Printers:	<u>PostScript</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_

◆ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

◆ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: INGRES

26. Data Exchange Formats Supported: DXF, ARC/Info, GIF, TIFF



**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching
- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- ☐ Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification
- Image Enhancement
- Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Object-oriented spatial database is fully versioned for handling change over time and long transactions on very large multi-user continuous datasets. Data is not just x,y and attributes, but objects which have behaviors.

PRODUCT NAME: LAS/ADAPS (Land Analysis System / AVHRR Data Acquisition and Processing System)

COMPANY/ORGANIZATION

Company Name: EROS Data Center  
Contact Person(s): Jim Fenno  
Street Address: Mundt Federal Building  
City, State: Sioux Falls, SD  
Zip, Country: 57198, USA  
Phone: 605-594-6833  
Fax: 605-594-6940  
Email: fenno@sg2.cr.usgs.gov

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Public Domain:

Costs for Distribution/Documentation: Available to government agencies and universities  
only at cost of reproduction

3. Turnkey system available (bundled hardware & software): ◇ Yes ◆ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: 34

7. Number of licensed users by continent: Africa: 2  
Asia: 1  
Australia: 1  
Europe: 3  
North America: 27  
South America:                     

8. Year of first installation: 1983

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: Not available

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: For cooperating agencies

11. Cost of support: ☐ Included in License ☒ Other: N/A

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: Not scheduled

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: None

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☐ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. **Online help:** ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: Minimal GUI for certain applications

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics IRIX 5.3, Sun  
SunOS 4.1.3, Data General DGUX 5.4.1

19. **Minimum hardware configuration:** 2 GB disk, tape devices (3480, 8mm, 9 track, 4 mm), 8 or 24  
bit color monitor.

20. **Devices supported:**

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers:_____	
<input type="checkbox"/> Frame Grabbers:_____	
<input type="checkbox"/> Scanners:_____	
<input type="checkbox"/> GPS:_____	
<input checked="" type="checkbox"/> CD-ROM:_____	
<input type="checkbox"/> Diskette:_____	
<input checked="" type="checkbox"/> Tape: <u>3480, 8 mm, 4 mm, 9 track</u>	<u>Same</u>
<input checked="" type="checkbox"/> Displays:	<u>X-terminals</u>
<input checked="" type="checkbox"/> Film Recorders:	_____
<input checked="" type="checkbox"/> Electrostatic Plotters:	_____
<input checked="" type="checkbox"/> Pen Plotters:	_____
<input type="checkbox"/> Ink Jet Printers:	_____
<input checked="" type="checkbox"/> Laser Printers:	_____
<input type="checkbox"/> Others:_____	_____

21. **Source code available:** ☒ Yes: ☒ C ☐ C++ ☒ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☐ Yes ☒ No

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** binary transfer file

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing           | <input type="checkbox"/> Map Display & Query                |
| <input type="checkbox"/> Digital Map Editing                 | <input checked="" type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring           | <input checked="" type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis               | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling        | <input type="checkbox"/> Surface Modeling                   |
| <input type="checkbox"/> Map Composition/Generation          | <input type="checkbox"/> Buffer generation                  |
| <input checked="" type="checkbox"/> Raster-Vector Conversion | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input checked="" type="checkbox"/> Edgematching             | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                  | <input type="checkbox"/> Radar Geocoding & Analysis                   |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.             | <input type="checkbox"/> Principal Components Analysis                |
| <input checked="" type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                              |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☐ Yes ☒ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** Applications may be modified to work with specific vendor I/O devices.

PRODUCT NAME: LASER WALKABOUT V 2.0

COMPANY/ORGANIZATION

Company Name: Laser Technology, Inc.  
Contact Person(s): Blair Zukan  
Street Address: 7070 S. Tucson Way  
City, State: Englewood, CO  
Zip, Country: 80112, USA  
Phone: 303-649-1000  
Fax: 303-649-9710  
Email: lasertek@ix.netcom.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☒ Other Charge: per unit charge

3. Turnkey system available (bundled hardware & software): ☐ Yes ☐ No

4. Basic (minimal) software system cost: \$2,200.00

5. Complete (fully capable) software system cost: \$14,175

USER BASE

6. Total number of licensed users: 105

7. Number of licensed users by continent: Africa: 1  
Asia: 5  
Australia: 10  
Europe: 8  
North America: 79  
South America: 2

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☒ Other: per update fee optional

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: IBM 386, 4 MB RAM, 4 MB of disk space

20. Devices supported:

### INPUT

### OUTPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☒ GPS: All GPS receivers - along with Laser Range-  
finder
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☐ Ink Jet Printers: \_\_\_\_\_
- ☐ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: not reported

27. If GIS Product: ☐ Vector ☐ Raster

**28. GIS Functionality:**

- Map Digitizing
  - ☐ Digital Map Editing
  - ☐ Topographical Structuring
  - ☐ Network Flow Analysis
  - ☐ Cell-based (Raster) Modeling
  - ☐ Map Composition/Generation
  - ☐ Raster-Vector Conversion
  - ☐ Edgematching
- Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - Surface Modeling
    - ☐ Buffer generation
  - Line-of-Sight Analysis
    - ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification
- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

**Please describe additional features:** LASER WALKABOUT is a field data collection system for use in gathering information, both spatial and feature/attribute, to populate GIS database. LASER WALKABOUT works with GPS and Laser Rangefinder to make data collection faster than with GPS alone. Data may be exported to any GIS system.

PRODUCT NAME: MAPS IN ACTION for Windows

COMPANY/ORGANIZATION

Company Name: Action Information (Management) Ltd.  
Contact Person(s): John Page  
Street Address: Ashton Road  
City, State: Hilperton, Nr. Trowbridge, Wiltshire  
Zip, Country: BA14 7SZ UK  
Phone: 44-01225-751616  
Fax: 44-01225-751616  
Email: N/A

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: Or to suit requirements

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £9000 (sterling)

5. Complete (fully capable) software system cost: £16000 (sterling)

USER BASE

6. Total number of licensed users: 200

7. Number of licensed users by continent: Africa: 5  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 195  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Support contract available

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files

15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_

16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A

17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: Touch screen buttons user customizable

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: IBM compatible 486 / 66MHZ, 16 MB RAM

20. Devices supported:

### INPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☒ GPS: Various
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: 3.5 inch
- ☐ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

VGA, SVGA up to 1278 x 1024  
resolution, optional touch screen

\_\_\_\_\_

\_\_\_\_\_

HP compatible - HPGL and  
HPGL supported

HP and others

\_\_\_\_\_

21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☐ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: not reported

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <input type="checkbox"/> Map Digitizing               | ■ Map Display & Query                           |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes          |
| <input type="checkbox"/> Network Flow Analysis        | ■ Vector Overlay Analysis                       |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling       |
| <input type="checkbox"/> Map Composition/Generation   | ■ Buffer generation                             |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining            |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** MAPS IN ACTION for Windows has been specifically designed for decision makers and offers fast response and intuitive operation. The software is extremely flexible, the user interface is configurable, and MAPS IN ACTION for Windows may be interfaced to other applications - using standard Windows communications routines, RS232 serial communications or network communications. Both stand alone and networked solutions are available.

PRODUCT NAME: MAPS 3D Digital Mapping Solutions

COMPANY/ORGANIZATION

Company Name: Pacific International Mapping Corp.  
Contact Person(s): Michael Layland  
Street Address: 101 4218 Commerce Circle  
City, State: Victoria, B.C.  
Zip, Country: V8Z 6N6, Canada  
Phone: 1-604-727-0727  
Fax: 1-604-727-3153  
Email: maps3d@pim.bc.ca

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Digital Mapping Software

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: US \$6490

5. Complete (fully capable) software system cost: Typically US \$15000, (System is modular, application-configurable.)

USER BASE

6. Total number of licensed users: 310

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 2  
North America: 304  
South America: 4

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: For first year, charge for subsequent years

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: on average, no fixed cycle

13. **Cost of updates:** ☒ Included in License or Maintenance Contract ☐ Other:\_\_\_\_\_

#### DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files

15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_

16. **Online help:** ☐ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A

17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: follows microstation styles

#### TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

19. **Minimum hardware configuration:** 486 PC, 16 MB system memory, 14" VGA or SVGA and  
second graphics monitor and Hercules, 12" x 12" digitizing tablet

20. **Devices supported:**

##### INPUT

##### OUTPUT

☒ Digitizers:\_\_\_\_\_

☐ Frame Grabbers:\_\_\_\_\_

☐ Scanners:\_\_\_\_\_

☐ GPS:\_\_\_\_\_

☒ CD-ROM:\_\_\_\_\_

☐ Diskette:\_\_\_\_\_

☐ Tape:\_\_\_\_\_

☐ Displays:\_\_\_\_\_

☐ Film Recorders:\_\_\_\_\_

☒ Electrostatic Plotters:\_\_\_\_\_

☐ Pen Plotters:\_\_\_\_\_

☒ Ink Jet Printers:\_\_\_\_\_

☐ Laser Printers:\_\_\_\_\_

☐ Others:\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☒ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_

**26. Data Exchange Formats Supported:** not reported

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query    |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes          |
| <input type="checkbox"/> Network Flow Analysis                 | <input type="checkbox"/> Vector Overlay Analysis           |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling       |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input type="checkbox"/> Buffer generation                 |
| <input type="checkbox"/> Raster-Vector Conversion              | <input checked="" type="checkbox"/> Line-of-Sight Analysis |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining            |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Interactive Display                | <input type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking                   | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections            | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.           | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                          | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification          | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☐ Yes ☒ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☒ No

**Please describe additional features:** A production toolbox for digital mapping including data acquisition and topological cleaning. System is modular allowing configuration of system to application requirements. Work with, and requires, microstation PC.

PRODUCT NAME: MAPTITUDE

COMPANY/ORGANIZATION

Company Name: Caliper Corporation  
Contact Person(s): Jack MacDougall  
Street Address: 1172 Beacon Street  
City, State: Newton, MA  
Zip, Country: 02161-9926, USA  
Phone: 617-527-4700  
Fax: 617-527-5113  
Email: info@caliper.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \$395

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$395

5. Complete (fully capable) software system cost: \$395

USER BASE

6. Total number of licensed users: 1000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: periodic

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: to be determined

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: toolbars and toolboxes

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 80486, Windows 3.1, 8 MB RAM, 16 MB disk space, CD-ROM
20. Devices supported:
- | INPUT   | OUTPUT                              |
|---|-------------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>Any with Wintab driver</u>                     |                                     |
| <input type="checkbox"/> Frame Grabbers: _____  |                                     |
| <input checked="" type="checkbox"/> Scanners: <u>Indirectly; Maptitude can display TIFF files</u> |                                     |
| <input checked="" type="checkbox"/> GPS: <u>Various, with Maptitude GPS add-in</u>                |                                     |
| <input checked="" type="checkbox"/> CD-ROM: <u>Any, with appropriate driver</u>                   | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Diskette: <u>Any, with appropriate driver</u>                 | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Tape: <u>Any, with appropriate driver</u>                     | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Displays:   |                                     |
| <input checked="" type="checkbox"/> Film Recorders:   | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Electrostatic Plotters:                                       | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Pen Plotters:   | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Ink Jet Printers:   | <u>Any, with appropriate driver</u> |
| <input checked="" type="checkbox"/> Laser Printers:   | <u>Any, with appropriate driver</u> |
| <input type="checkbox"/> Others: _____  | _____                               |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Any with ODBC driver
26. Data Exchange Formats Supported: DXF, MIF, BNA, EOO, TIGER/LINE, UGEN, ETAK STREETS,

etc.

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion              | <input type="checkbox"/> Line-of-Sight Analysis             |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Interactive Display      | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification             | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking                    | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections             | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling                 | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno. | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                           | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification           | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☒ No

**Please describe additional features:** Includes two full CD-ROMs of geographic and demographic data, derived largely from TIGER/LINE files, 1990 census of population and housing, National Highway Planning Network and Digital Chart of the World. From one CD can address match, route and display using all 36 million plus street segments in TIGER/LINE files. Supports OLE 2.0 optional \$395 programming language, the GISDK.



PRODUCT NAME: Market Analysis

COMPANY/ORGANIZATION

Company Name: Laser-Scan  
Contact Person(s): Parvis Ansary, Tim Hartnall  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: parvis@lsl.co.uk, tim@lsl.co.uk

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: as required

License fee is: ☒ One Time Charge ☒ Other Charge: negotiable

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £20,000

5. Complete (fully capable) software system cost: £29,000 (inclusive of 1st years support)

USER BASE

6. Total number of licensed users: 5

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 5  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 15% of software cost

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☐ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. **Online help:** ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. **User interface:** ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: AIX - IBM; Ultrix - Digital;  
Sun/OS, Solaris - SUN

19. **Minimum hardware configuration:** 64 MB (RAM), 400 MB (min.) H/D space avail., HP (9000,  
733, 750), CRX color graphics, HP-UX Workstation, SUN (Sparc 2, or Sparc X series) 100/200  
models, GX color graphics, Solaris (1-1) (Open Windows v3.0), OSF/Motif mwm, IBM (RS 6000),  
skyways color graphics, AIX 3L, Fortran RT/L, X-Window devt. lib's.

20. **Devices supported:**

### INPUT

### OUTPUT

- ☒ Digitizers:\_\_\_\_\_
- ☒ Frame Grabbers:\_\_\_\_\_
- ☒ Scanners:\_\_\_\_\_
- ☐ GPS:\_\_\_\_\_
- ☒ CD-ROM:\_\_\_\_\_
- ☒ Diskette:\_\_\_\_\_
- ☒ Tape:\_\_\_\_\_
- ☐ Displays:\_\_\_\_\_
- ☐ Film Recorders:\_\_\_\_\_
- ☒ Electrostatic Plotters:\_\_\_\_\_
- ☒ Pen Plotters:\_\_\_\_\_
- ☒ Ink Jet Printers:\_\_\_\_\_
- ☒ Laser Printers:\_\_\_\_\_
- ☐ Others:\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. **Source code available:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: INGRES

**26. Data Exchange Formats Supported:** DXF, ARC/Info, GIF, TIFF

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

☒ Map Digitizing

☒ Digital Map Editing

☒ Topographical Structuring

☒ Network Flow Analysis

☐ Cell-based (Raster) Modeling

☐ Map Composition/Generation

☒ Raster-Vector Conversion

☐ Edgematching

☒ Map Display & Query

☒ Change Map Projections

☒ Datum Changes

☒ Vector Overlay Analysis

☐ Surface Modeling

☒ Buffer generation

☐ Line-of-Sight Analysis

☒ Map Joining

**29. Image Processing Functionality:**

☐ Interactive Display

☐ Geometric Rectification

☐ Image Mosaicking

☐ Radiometric Corrections

☐ Raster GIS Modeling

☐ Hardcopy Map Comp./Anno.

☐ Filtering

☐ Supervised Classification

☐ Image Enhancement

☐ Spatial Filtering

☐ Fourier Analysis

☐ Multivariate/Statistical Analysis

☐ Radar Geocoding & Analysis

☐ Principal Components Analysis

☐ Density Slicing

☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** 1) Extensible "toolkit" functionality. (Option) 2) Fully integrated development environment.

PRODUCT NAME: Mobile - G.I.S.

COMPANY/ORGANIZATION

Company Name: Procis Software Ltd.  
Contact Person(s): Pammi Panesar  
Street Address: Alexander House, Flemming Way  
City, State: Swindon  
Zip, Country: SN1 2NG, UK  
Phone: 01793-541200  
Fax: 01793-541025  
Email: Not reported

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Mobile GIS

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other:

License fee is: ☒ One Time Charge ☐ Other Charge:

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: variable

5. Complete (fully capable) software system cost: variable

USER BASE

6. Total number of licensed users: 250

7. Number of licensed users by continent: Africa:  
Asia:  
Australia:  
Europe: 250  
North America:  
South America:

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other:

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: Europe

11. Cost of support: ☐ Included in License ☒ Other: Annual charge

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other:

13. Cost of updates: ☒ Included in License or Maintenance Contract ☒ Other: New facilitation extra

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Dutch
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: Mono/color pen machine for field use and 486 PC for office data management system.
20. Devices supported:
- | INPUT  | OUTPUT                                      |
|--|---|
| <input type="checkbox"/> Digitizers: _____   |   |
| <input type="checkbox"/> Frame Grabbers: _____                                       |   |
| <input type="checkbox"/> Scanners: _____   |   |
| <input checked="" type="checkbox"/> GPS: _____                                       |   |
| <input type="checkbox"/> CD-ROM: _____   |   |
| <input checked="" type="checkbox"/> Diskette: _____                                  |   |
| <input type="checkbox"/> Tape: _____   |   |
| <input checked="" type="checkbox"/> Displays: _____                                  | <u>Color/mono</u>                           |
| <input type="checkbox"/> Film Recorders: _____                                       | _____                                       |
| <input type="checkbox"/> Electrostatic Plotters: _____                               | _____                                       |
| <input type="checkbox"/> Pen Plotters: _____   | _____                                       |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____                          | _____                                       |
| <input checked="" type="checkbox"/> Laser Printers: _____                            | _____                                       |
| <input checked="" type="checkbox"/> Others: <u>PCMCIA cards, corp. GIS databases</u> | <u>Mobile printers, radio data transfer</u> |
21. Source code available: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☒ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

- ☒ Map Digitizing
- ☒ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching
- ☐ Map Display & Query
- ☐ Change Map Projections
- ☐ Datum Changes
- ☐ Vector Overlay Analysis
- ☐ Surface Modeling
- ☐ Buffer generation
- ☐ Line-of-Sight Analysis
- ☒ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification
- ☐ Image Enhancement
- ☐ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Mobile - G.I.S. extends corporate GIS to field operators in an easy to use but comprehensive package for portable computers. It enables users to access a very large map and database and collect text and graphical information at source. Its office based management system (MGIMS) provides the same GIS functionality as MGIS for use within the office, but more importantly, it acts as a central point, facilitating the bi-directional data communication between MGIS and any corporate GIS system. It also allows information to be "broadcast" from one MGIS user to all others.

PRODUCT NAME: MultiSpec

COMPANY/ORGANIZATION

Company Name: Purdue University  
Contact Person(s): Prof. David Landgrebe, Larry Biehl  
Street Address: EE Building  
City, State: West Lafayette, IN  
Zip, Country: 47907-1285, USA  
Phone: 317-494-3529  
Fax: 317-494-6951  
Email: landbreb@ecn.purdue.edu, biehl@ecn.purdue.edu

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Public Domain

Costs for Distribution/Documentation: Available from Web

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: --

5. Complete (fully capable) software system cost: --

USER BASE

6. Total number of licensed users: >500

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1988

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☒ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: periodically

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files

15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_

16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A

17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

#### TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☒ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

19. Minimum hardware configuration: MAC: 680XD based with or without math coprocessor and  
Power PC based machines: IBM comp.: 386 or better and Windows 3.1: color display

20. Devices supported:

#### INPUT

#### OUTPUT

☐ Digitizers:\_\_\_\_\_  
☐ Frame Grabbers:\_\_\_\_\_  
☐ Scanners:\_\_\_\_\_  
☐ GPS:\_\_\_\_\_  
☒ CD-ROM:\_\_\_\_\_  
☒ Diskette:\_\_\_\_\_  
☐ Tape:\_\_\_\_\_  
☐ Displays:\_\_\_\_\_  
☐ Film Recorders:\_\_\_\_\_  
☐ Electrostatic Plotters:\_\_\_\_\_  
☐ Pen Plotters:\_\_\_\_\_  
☒ Ink Jet Printers:\_\_\_\_\_  
☒ Laser Printers:\_\_\_\_\_  
☐ Others:\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Any Macintosh compatible  
Any Macintosh compatible  
\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_

26. Data Exchange Formats Supported: Many BIL, BSQ, BIS or BIP binary formats

27. If GIS Product: ☐ Vector ☒ Raster

28. GIS Functionality:

☐ Map Digitizing ☐ Map Display & Query  
☐ Digital Map Editing ☐ Change Map Projections



- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

- ☐ Datum Changes
- ☐ Vector Overlay Analysis
- ☐ Surface Modeling
- ☐ Buffer generation
- ☐ Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** not reported

PRODUCT NAME: NTF PORTFOLIO

COMPANY/ORGANIZATION

Company Name: Longdin & Browning  
Contact Person(s): T. Lox  
Street Address: 50 Sketty Road  
City, State: Swansea, West Glamorgan  
Zip, Country: SA2 OLH, UK  
Phone: 01792-202244  
Fax: 01792-203333  
Email: Compuserv 100271,2433

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☒ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £600

5. Complete (fully capable) software system cost: £600

USER BASE

6. Total number of licensed users: 270

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 270  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 100

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: as and when, usually 6 months

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: PC/DOS - 640K
20. Devices supported:
- | INPUT  | OUTPUT                    |
|--|---------------------------|
| <input type="checkbox"/> Digitizers: _____                       |                           |
| <input type="checkbox"/> Frame Grabbers: _____                   |                           |
| <input type="checkbox"/> Scanners: _____                         |                           |
| <input type="checkbox"/> GPS: _____                              |                           |
| <input checked="" type="checkbox"/> CD-ROM: <u>DOS compat.</u>   |                           |
| <input checked="" type="checkbox"/> Diskette: <u>DOS compat.</u> | <u>DOS file or screen</u> |
| <input type="checkbox"/> Tape: _____                             |                           |
| <input type="checkbox"/> Displays: _____                         |                           |
| <input type="checkbox"/> Film Recorders: _____                   |                           |
| <input type="checkbox"/> Electrostatic Plotters: _____           |                           |
| <input type="checkbox"/> Pen Plotters: _____                     |                           |
| <input type="checkbox"/> Ink Jet Printers: _____                 |                           |
| <input type="checkbox"/> Laser Printers: _____                   |                           |
| <input type="checkbox"/> Others: _____                           |                           |
21. Source code available: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: Any ASCII
27. If GIS Product: ☒ Vector ☐ Raster
28. GIS Functionality:

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☒ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☒ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

- ☒ Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☒ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☒ Map Joining

- ☐ Image Enhancement

☐ Spatial Filtering

- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**Please describe additional features:** Autodesk compliant and standalone DOS/Windows

PRODUCT NAME: OrthoMax

COMPANY/ORGANIZATION

Company Name: Vision International, of Autometric, Inc.  
Contact Person(s): Richard McKay  
Street Address: 5301 Shawnee Road  
City, State: Alexandria, VA  
Zip, Country: 22312, USA  
Phone: 703-658-4000  
Fax: 703-658-4426  
Email: mckay@autometric.com

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$20,000

5. Complete (fully capable) software system cost: \$30,000

USER BASE

6. Total number of licensed users: 500

7. Number of licensed users by continent: Africa: 20  
Asia: 30  
Australia: 15  
Europe: 100  
North America: 300  
South America: 50

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 15%

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: GUI

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics Sun

19. Minimum hardware configuration: SUN SparcStation

20. Devices supported:

### INPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☐ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☐ Ink Jet Printers: \_\_\_\_\_
- ☐ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: ERDAS Imagine

27. If GIS Product: ☐ Vector ☐ Raster

**28. GIS Functionality:**

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☒ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching
- ☐ Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - ☒ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

**29. Image Processing Functionality:**

- ☒ Interactive Display
- ☒ Geometric Rectification
- ☒ Image Mosaicking
- ☒ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☒ Hardcopy Map Comp./Anno.
- ☒ Filtering
- ☐ Supervised Classification
- ☒ Image Enhancement
- ☒ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Developed for the GIS community, OrthoMax is high performance soft-copy terrain mapping and precise geopositioning. OrthoMax is sold as a module of ERDAS Imagine.

PRODUCT NAME: PAMAP GIS v4.2

COMPANY/ORGANIZATION

Company Name: EPS Essential Planning Systems Ltd.  
Contact Person(s): Alison Malis, Marketing Communications Mgr.  
Street Address: 6772 Oldfield Road, Suite 200  
City, State: Victoria, B.C.  
Zip, Country: V8M 2A2, Canada  
Phone: 604-652-8895  
Fax: 604-652-8896  
Email: marketing@eps.bc.ca

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$5,000 US

5. Complete (fully capable) software system cost: up to \$20,500 US

USER BASE

6. Total number of licensed users: 1000+

7. Number of licensed users by continent: Africa: 75  
Asia: 150  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 725  
South America: 50

8. Year of first installation: 1986

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: \$2,500/yr

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_



## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☐ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. **Online help:** ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. **User interface:** ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. **Minimum hardware configuration:** Intel i386, i486 or Pentium Processor, DOS 5.0 or higher, MS Windows 3.1, Windows for Workgroups 3.11, Windows 95 and Windows NT, 4MB of application RAM or greater, 256-color display adaptor, 20MB of free disk space on hard drive.
20. **Devices supported:**
- | INPUT   | OUTPUT |
|---|--------|
| <input checked="" type="checkbox"/> Digitizers: _____             |        |
| <input checked="" type="checkbox"/> Frame Grabbers: _____         |        |
| <input checked="" type="checkbox"/> Scanners: _____               |        |
| <input checked="" type="checkbox"/> GPS: _____                    |        |
| <input checked="" type="checkbox"/> CD-ROM: _____                 |        |
| <input checked="" type="checkbox"/> Diskette: _____               | _____  |
| <input checked="" type="checkbox"/> Tape: _____                   | _____  |
| <input type="checkbox"/> Displays: _____                          | _____  |
| <input type="checkbox"/> Film Recorders: _____                    | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ | _____  |
| <input checked="" type="checkbox"/> Pen Plotters: _____           | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____         | _____  |
| <input type="checkbox"/> Others: _____                            | _____  |
21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. **Batch capability:** ☒ Yes ☐ No
23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. **Integrated Data Base Management System:** ☒ Yes ☐ No
25. **Data Base File Types Supported:** ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Any dBase format database; FoxPro
26. **Data Exchange Formats Supported:** IGDS, DXF, ARC/Info, SPANS, Point Import/Export, MOSS, DLG,

**27. If GIS Product:** ■ Vector ■ Raster

**28. GIS Functionality:**

- |                                |                           |
|--------------------------------|---------------------------|
| ■ Map Digitizing               | ■ Map Display & Query     |
| ■ Digital Map Editing          | ■ Change Map Projections  |
| ■ Topographical Structuring    | ■ Datum Changes           |
| ■ Network Flow Analysis        | ■ Vector Overlay Analysis |
| ■ Cell-based (Raster) Modeling | ■ Surface Modeling        |
| ■ Map Composition/Generation   | ■ Buffer generation       |
| ■ Raster-Vector Conversion     | ■ Line-of-Sight Analysis  |
| ■ Edgematching                 | ■ Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** PAMAP GIS is an integrated raster/vector/database system designed for use on the PC platform. It emphasizes ease of use, offers a full suite of cartographic tools for high quality presentations, provides comprehensive functionality - from simple queries to 3D modelling - and has a development environment for user-interface customization. PAMAP GIS is comprised of seven modules and ten data translators. Users need only purchase the modules required for their application. PAMAP has installations worldwide primarily in the natural resource, environmental and land management areas.

PRODUCT NAME: PC-GPS

COMPANY/ORGANIZATION

Company Name: Corvallis Microtechnology, Inc.  
Contact Person(s): Eric Gakstatter  
Street Address: 413 SW Jefferson Ave.  
City, State: Corvallis, OR  
Zip, Country: 97333, USA  
Phone: 503-752-5456  
Fax: 503-752-4117  
Email: ericpg@peak.org

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: US\$1430.00

5. Complete (fully capable) software system cost: US\$1430.00

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: N/A  
Asia: N/A  
Australia: N/A  
Europe: N/A  
North America: N/A  
South America: N/A

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: Varies

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☒ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: 486DX, 2MB RAM, 100MB Hard disk

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: \_\_\_\_\_
- ☒ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: \_\_\_\_\_
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☒ Other: VBASIC  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: ODBC

26. Data Exchange Formats Supported: ESRI Shapefile, DXF

27. If GIS Product: ☒ Vector ☐ Raster

28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

- Map Display & Query
- Change Map Projections
- Datum Changes
- ☐ Vector Overlay Analysis
- ☐ Surface Modeling
- Buffer generation
- ☐ Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◆ Yes ◇ No

**Please describe additional features:** PC-GPS is a complete Windows-based GPS program that is a companion product for the MC-GPS field data collection unit. It includes satellite planning, map editing, GIS export, Differential correction using base station data from other manufacturers' base stations. PC-GPS is an OLE compliant program and also supports ODBC. Together with the MC-GPS, PC-GPS is a complete GPS data collection system for digitizing information in the field.

PRODUCT NAME: PRISM

COMPANY/ORGANIZATION

Company Name: DATRON/TRANSCO, Inc.  
Contact Person(s): Jacques Huyghe  
Street Address: 1500 Buckeye Drive  
City, State: Milpitas, CA  
Zip, Country: 95035, USA  
Phone: 408-432-3400  
Fax: 408-433-0965  
Email: jhuyghe@i2s.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Photogrammetry

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☒ Site ☒ Other: networked floating licenses

License fee is: ☒ One Time Charge ☒ Other Charge: maintenance

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$12,000

5. Complete (fully capable) software system cost: \$35,000

USER BASE

6. Total number of licensed users: 70

7. Number of licensed users by continent: Africa: 5  
Asia: 20  
Australia: \_\_\_\_\_  
Europe: 20  
North America: 25  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☒ Other: yearly fee

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN SGI HP, SUN only for STERO

19. Minimum hardware configuration: 64MB of memory, 300MB of disk space
20. Devices supported:

### INPUT

- ☒ Digitizers: mouse, Calcomp, Altek, Summagraphic
- ☒ Frame Grabbers: Workstation Department
- ☒ Scanners: all TIFF, PostScript, BIL, BSQ types
- ☒ GPS: support for ASCII, XYZ files
- ☒ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☒ Tape: 8mm, 9 track, 1/4 QIC
- ☒ Displays: \_\_\_\_\_
- ☒ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

- All Window
- All TIFF and PostScript
- All TIFF and PostScript
- All TIFF and PostScript
- All TIFF and PostScript
- All TIFF and PostScript

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☒ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: ERDOS, BIC, BSQ, TIFF, DXF

**27. If GIS Product:** ☐ Vector ☒ Raster

**28. GIS Functionality:**

- ☒ Map Digitizing
- ☒ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☒ Cell-based (Raster) Modeling
- ☒ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☒ Edgematching
- ☐ Map Display & Query
  - ☒ Change Map Projections
  - ☒ Datum Changes
  - ☒ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☒ Line-of-Sight Analysis
  - ☒ Map Joining

**29. Image Processing Functionality:**

- ☒ Interactive Display
- ☒ Geometric Rectification
- ☒ Image Mosaicking
- ☒ Radiometric Corrections
- ☒ Raster GIS Modeling
- ☒ Hardcopy Map Comp./Anno.
- ☒ Filtering
- ☒ Supervised Classification
- ☒ Image Enhancement
- ☒ Spatial Filtering
  - ☒ Fourier Analysis
  - ☒ Multivariate/Statistical Analysis
  - ☒ Radar Geocoding & Analysis
  - ☒ Principal Components Analysis
  - ☒ Density Slicing
  - ☒ Unsupervised Classification

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** not reported



PRODUCT NAME: RootsPRO

COMPANY/ORGANIZATION

Company Name: Decision Images, Inc.  
Contact Person(s): Bob Mills  
Street Address: PO Box 513  
City, State: Princeton, NJ  
Zip, Country: 08542, USA  
Phone: 609-683-0234  
Fax: 609-683-4068  
Email: decision@tigger.jvnc.net

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other:           

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other:           

License fee is: ☒ One Time Charge ☐ Other Charge:           

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$1495

5. Complete (fully capable) software system cost: \$1495

USER BASE

6. Total number of licensed users: 400+

7. Number of licensed users by continent: Africa:                                   
Asia:                                   
Australia:                                   
Europe:                                   
North America:                                   
South America:                                 

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☐ Other:           

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:           

11. Cost of support: ☒ Included in License ☐ Other:           

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: when done!

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☒ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 386/486 with 4MB RAM, Mac with 4MB RAM
20. Devices supported:
- | INPUT  | OUTPUT |
|--|--------|
| <input checked="" type="checkbox"/> Digitizers: <u>all serial tablets</u>    |        |
| <input type="checkbox"/> Frame Grabbers: _____                               |        |
| <input type="checkbox"/> Scanners: _____                                     |        |
| <input type="checkbox"/> GPS: _____  |        |
| <input type="checkbox"/> CD-ROM: _____                                       |        |
| <input checked="" type="checkbox"/> Diskette: <u>dxf, many other formats</u> |        |
| <input type="checkbox"/> Tape: _____   |        |
| <input type="checkbox"/> Displays: _____                                     | _____  |
| <input type="checkbox"/> Film Recorders: _____                               | _____  |
| <input type="checkbox"/> Electrostatic Plotters: _____                       | _____  |
| <input type="checkbox"/> Pen Plotters: _____                                 | _____  |
| <input type="checkbox"/> Ink Jet Printers: _____                             | _____  |
| <input type="checkbox"/> Laser Printers: _____                               | _____  |
| <input type="checkbox"/> Others: _____                                       | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: DXF, ARC/INFO GEN, DLG, many others
27. If GIS Product: ☒ Vector ☐ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

**30. Multi-user Capability:** ◇ Yes ◆ No

**31. Expert system capability:** ◇ Yes ◆ No

**32. Spatial index supported:** ◇ Yes ◆ No

**33. Object Oriented Architecture:** ◇ Yes ◆ No

- ☐ Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

- ☐ Image Enhancement

☐ Spatial Filtering

- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**Please describe additional features:** not reported

PRODUCT NAME: RTView

COMPANY/ORGANIZATION

Company Name: Trix Systems, Inc.  
Contact Person(s): Chris Sweetnam  
Street Address: 68 Smith St.  
City, State: Chelmsford, MA  
Zip, Country: 01824, USA  
Phone: 800-326-4443 or 508-256-4445  
Fax: 508-256-9593  
Email: swwetnam@trixsystems.com

1. Type of product:

☐ GIS ☒ Image Processing ☒ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \$130-1,500

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$130

5. Complete (fully capable) software system cost: \$1,500

USER BASE

6. Total number of licensed users: 200

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: Consulting

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Swedish
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: not reported
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers: _____                        |        |
| <input type="checkbox"/> Frame Grabbers: _____                    |        |
| <input type="checkbox"/> Scanners: _____                          |        |
| <input type="checkbox"/> GPS: _____                               |        |
| <input type="checkbox"/> CD-ROM: _____                            |        |
| <input type="checkbox"/> Diskette: _____                          |        |
| <input type="checkbox"/> Tape: _____                              |        |
| <input type="checkbox"/> Displays: _____                          | _____  |
| <input type="checkbox"/> Film Recorders: _____                    | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ | _____  |
| <input checked="" type="checkbox"/> Pen Plotters: _____           | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____         | _____  |
| <input type="checkbox"/> Others: _____                            | _____  |
21. Source code available: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: Many raster and vector formats
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

- ☐ Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

**29. Image Processing Functionality:**

- ☒ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☒ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** Trix Systems, Inc. provides software applications for automatic paper-to-CAD (raster to vector) conversion, scanning, viewing, redlining, image file format conversion (including vector to raster), network based engineering document management and facilities management.

PRODUCT NAME: R2V for Windows/NT

COMPANY/ORGANIZATION

Company Name: Able Software Company  
Contact Person(s): Dr. Yecheng Wu  
Street Address: 5 Appletree Lane  
City, State: Lexington, MA  
Zip, Country: 02173, USA  
Phone: 617-862-2804  
Fax: 617-862-2640  
Email: able@world.std.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Raster to vector conversion

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: US \$1495

5. Complete (fully capable) software system cost: US \$1495

USER BASE

6. Total number of licensed users: 103

7. Number of licensed users by continent: Africa: 1  
Asia: 30  
Australia: 2  
Europe: 20  
North America: 40  
South America: 10

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 486 PC or better, 4MB RAM, 1MB harddisk space, SVGA display
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers: _____                        |        |
| <input type="checkbox"/> Frame Grabbers: _____                    |        |
| <input checked="" type="checkbox"/> Scanners: _____               |        |
| <input type="checkbox"/> GPS: _____                               |        |
| <input checked="" type="checkbox"/> CD-ROM: _____                 |        |
| <input checked="" type="checkbox"/> Diskette: _____               |        |
| <input checked="" type="checkbox"/> Tape: _____                   |        |
| <input checked="" type="checkbox"/> Displays: _____               | _____  |
| <input checked="" type="checkbox"/> Film Recorders: _____         | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____ | _____  |
| <input checked="" type="checkbox"/> Pen Plotters: _____           | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____       | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____         | _____  |
| <input type="checkbox"/> Others: _____                            | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☐ Yes ☒ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: ARC/INFO, DXF, MAPINFO, ARCVIEW, TIFF, SPOT
27. If GIS Product: ☒ Vector ☒ Raster



**28. GIS Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li>■ Topographical Structuring</li><li><input type="checkbox"/> Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li>■ Map Composition/Generation</li><li>■ Raster-Vector Conversion</li><li><input type="checkbox"/> Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query</li><li>■ Change Map Projections</li><li><input type="checkbox"/> Datum Changes</li><li>■ Vector Overlay Analysis</li><li><input type="checkbox"/> Surface Modeling</li><li><input type="checkbox"/> Buffer generation</li><li>■ Line-of-Sight Analysis</li><li>■ Map Joining</li></ul> |
|---|---|

**29. Image Processing Functionality:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>■ Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li>■ Filtering</li><li>■ Supervised Classification</li></ul> | <ul style="list-style-type: none"><li>■ Image Enhancement</li><li>■ Spatial Filtering</li><li><input type="checkbox"/> Fourier Analysis</li><li>■ Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li>■ Unsupervised Classification</li></ul> |
|--|---|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** R2V generates vector data automatically from scanned maps, aerial photos or satellite imagery in color or black-white. R2V provides complete on-screen vector editing functionalities and supports map registration to a user specified projection system.

PRODUCT NAME: SHL VISION\* Solutions

COMPANY/ORGANIZATION

Company Name: SHL Systemhouse, Inc.  
Contact Person(s): Karen Westwood  
Street Address: 50 O'Connor Street, Suite 501  
City, State: Ottawa, Ontario  
Zip, Country: K1P 6L2, Canada  
Phone: 613-236-9734  
Fax: 613-567-5433  
Email: kwestwood@gis.shl.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: Spatial data management

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☒ Other: Company, # of concurrent users

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$10 K

5. Complete (fully capable) software system cost: enterprise and configuration dependent

USER BASE

6. Total number of licensed users: over 5000 +

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 15% of software list price

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: National  
language support - enabled
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☒ User-Generated Macros ☒ Other: user designed interface

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
- If UNIX/X-Windows, list vendors and window managers supported: DEC, IBM, SUN, HP, Motif,  
Microsoft Windows
19. Minimum hardware configuration: dependent on the platform and O/S and user requirements
20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input type="checkbox"/> CD-ROM: _____	
<input type="checkbox"/> Diskette: _____	
<input type="checkbox"/> Tape: _____	
<input type="checkbox"/> Displays:	_____
<input type="checkbox"/> Film Recorders:	_____
<input type="checkbox"/> Electrostatic Plotters:	_____
<input type="checkbox"/> Pen Plotters:	_____
<input type="checkbox"/> Ink Jet Printers:	_____
<input type="checkbox"/> Laser Printers:	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☐ Other: \_\_\_\_\_

**26. Data Exchange Formats Supported:** GINA, DXF, SIF, Translation Toolkit

**27. If GIS Product:** ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing             | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring  | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion              | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching               | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** The VISION\* architecture is unique - it abandons the outdated concept of the proprietary database used by traditional GIS and uses an open commercial database (Oracle) as the database engine. This allows our clients to maximize the return from their existing data with fully integrated spatial extensions. The result is a database foundation that supports multiple departments in even the most complex enterprise.

PRODUCT NAME: SoftPlotter

COMPANY/ORGANIZATION

Company Name: Vision International, of Autometric, Inc.  
Contact Person(s): Richard McKay  
Street Address: 5301 Shawnee Road  
City, State: Alexandria, VA  
Zip, Country: 22312, USA  
Phone: 703-658-4000  
Fax: 703-658-4426  
Email: rmckay@autometric.com

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$40,000

5. Complete (fully capable) software system cost: \$60,000

USER BASE

6. Total number of licensed users: 132

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: 5  
Australia: 2  
Europe: 20  
North America: 100  
South America: 5

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: 15%

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: GUI

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics, Sun, DEC Alpha

19. Minimum hardware configuration: SGL Indy

20. Devices supported:

### INPUT

### OUTPUT

- ☐ Digitizers: \_\_\_\_\_
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☐ GPS: \_\_\_\_\_
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☐ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☐ Electrostatic Plotters: \_\_\_\_\_
- ☐ Pen Plotters: \_\_\_\_\_
- ☐ Ink Jet Printers: \_\_\_\_\_
- ☐ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☒ Other: SQS

26. Data Exchange Formats Supported: ERDAS Imagine and raw binary

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- ☐ Map Digitizing
- ☒ Digital Map Editing
- ☒ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☒ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☒ Edgematching
- ☐ Map Display & Query
- ☒ Change Map Projections
- ☒ Datum Changes
- ☒ Vector Overlay Analysis
- ☒ Surface Modeling
- ☐ Buffer generation
- ☐ Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☒ Interactive Display
- ☒ Geometric Rectification
- ☒ Image Mosaicking
- ☒ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☒ Hardcopy Map Comp./Anno.
- ☒ Filtering
- ☐ Supervised Classification
- ☒ Image Enhancement
- ☒ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** The preeminent softcopy digital photogrammetry software on the market. SoftPlotter provides the functionality and performance demanded by professional mapping organizations.

PRODUCT NAME: SPACE WINDOWS

COMPANY/ORGANIZATION

Company Name: Geographic Management Solutions Limited  
Contact Person(s): John Standerline  
Street Address: 12 Turnpike Gate  
City, State: Wickwar, Wotton-under-Edge, Gloucestershire  
Zip, Country: GL12 8ND, UK  
Phone: 44-1454-294948  
Fax: 44-1454-294948  
Email: not reported

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$15,000

5. Complete (fully capable) software system cost: \$15,000

USER BASE

6. Total number of licensed users: 600

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 550  
North America: \_\_\_\_\_  
South America: 50

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: annual fee



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_
19. Minimum hardware configuration: 486 PC
20. Devices supported:
- | INPUT  | OUTPUT |
|--|--------|
| <input checked="" type="checkbox"/> Digitizers:_____     |        |
| <input checked="" type="checkbox"/> Frame Grabbers:_____ |        |
| <input checked="" type="checkbox"/> Scanners:_____       |        |
| <input checked="" type="checkbox"/> GPS:_____            |        |
| <input checked="" type="checkbox"/> CD-ROM:_____         |        |
| <input checked="" type="checkbox"/> Diskette:_____       |        |
| <input checked="" type="checkbox"/> Tape:_____           |        |
| <input type="checkbox"/> Displays:_____                  | _____  |
| <input type="checkbox"/> Film Recorders:_____            | _____  |
| <input type="checkbox"/> Electrostatic Plotters:_____    | _____  |
| <input type="checkbox"/> Pen Plotters:_____              | _____  |
| <input type="checkbox"/> Ink Jet Printers:_____          | _____  |
| <input type="checkbox"/> Laser Printers:_____            | _____  |
| <input checked="" type="checkbox"/> Others: <u>Video</u> | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_
26. Data Exchange Formats Supported: not reported
27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li>■ Topographical Structuring</li><li>■ Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li>■ Map Composition/Generation</li><li><input type="checkbox"/> Raster-Vector Conversion</li><li>■ Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query</li><li>■ Change Map Projections</li><li>■ Datum Changes</li><li>■ Vector Overlay Analysis</li><li><input type="checkbox"/> Surface Modeling</li><li><input type="checkbox"/> Buffer generation</li><li><input type="checkbox"/> Line-of-Sight Analysis</li><li><input type="checkbox"/> Map Joining</li></ul> |
|--|--|

**29. Image Processing Functionality:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li>■ Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering</li><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul> |
|--|---|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** not reported

PRODUCT NAME: SPACE/Motif

#### COMPANY/ORGANIZATION

Company Name: APIC S.A.  
Contact Person(s): Pierre Tarif, Marketing Director  
Street Address: Le Baudran, 25, Rue de Stalingrad  
City, State: Arcueil  
Zip, Country: 94724 Ceder, France  
Phone: 33-1-49-69-90-90  
Fax: 33-1-49-69-92-93  
Email: ifo@apic.fr

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: software component

#### LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$8,000

5. Complete (fully capable) software system cost: \$17,000

#### USER BASE

6. Total number of licensed users: 100

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 100  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

#### SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Maintenance contract available

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: 2/year

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun - Solaris 1 / Sun - Solaris 2 / HP - UX9 / IBM - AIX

19. Minimum hardware configuration: RAM 32MB

20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers:_____	
<input type="checkbox"/> Frame Grabbers:_____	
<input type="checkbox"/> Scanners:_____	
<input type="checkbox"/> GPS:_____	
<input type="checkbox"/> CD-ROM:_____	
<input type="checkbox"/> Diskette:_____	
<input type="checkbox"/> Tape:_____	
<input type="checkbox"/> Displays:_____	
<input type="checkbox"/> Film Recorders:_____	
<input checked="" type="checkbox"/> Electrostatic Plotters:_____	<u>HPGL2, PostScript</u>
<input type="checkbox"/> Pen Plotters:_____	
<input type="checkbox"/> Ink Jet Printers:_____	
<input type="checkbox"/> Laser Printers:_____	
<input type="checkbox"/> Others:_____	

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_

◆ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other:\_\_\_\_\_

◆ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph

☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☒ Sybase ☒ Other: Object-Oriented / Informix / Ingres

26. Data Exchange Formats Supported: DXF / EDIGEO / NTF / ASCII / APIC IED

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input type="checkbox"/> Map Digitizing                        | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing        | <input type="checkbox"/> Change Map Projections             |
| <input type="checkbox"/> Topographical Structuring             | <input type="checkbox"/> Datum Changes                      |
| <input checked="" type="checkbox"/> Network Flow Analysis      | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling          | <input type="checkbox"/> Surface Modeling                   |
| <input checked="" type="checkbox"/> Map Composition/Generation | <input checked="" type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion              | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                          | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Interactive Display | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification        | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking               | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections        | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling            | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.       | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                      | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification      | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** Multi-bases access (simultaneous access to several databases by one user).

PRODUCT NAME: SPACE/Windows

COMPANY/ORGANIZATION

Company Name: APIC S.A.  
Contact Person(s): Pierre Tarif, Marketing Director  
Street Address: Le Baudran, 25, Rue de Stalingrad  
City, State: Arcueil  
Zip, Country: 94724 Ceder, France  
Phone: 33-1-49-69-90-90  
Fax: 33-1-49-69-92-93  
Email: ifo@apic.fr

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$2,800

5. Complete (fully capable) software system cost: \$2,800

USER BASE

6. Total number of licensed users: 40

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 40  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: BBS (\$200 / 3 hours)

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_

19. Minimum hardware configuration: RAM 8MB, disk 50MB

20. Devices supported:

### INPUT

- ☐ Digitizers:\_\_\_\_\_
- ☐ Frame Grabbers:\_\_\_\_\_
- ☐ Scanners:\_\_\_\_\_
- ☐ GPS:\_\_\_\_\_
- ☐ CD-ROM:\_\_\_\_\_
- ☐ Diskette:\_\_\_\_\_
- ☐ Tape:\_\_\_\_\_
- ☒ Displays:\_\_\_\_\_
- ☒ Film Recorders:\_\_\_\_\_
- ☐ Electrostatic Plotters:\_\_\_\_\_
- ☐ Pen Plotters:\_\_\_\_\_
- ☐ Ink Jet Printers:\_\_\_\_\_
- ☐ Laser Printers:\_\_\_\_\_
- ☐ Others:\_\_\_\_\_

### OUTPUT

GDI capabilities

PostScript

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other:\_\_\_\_\_

26. Data Exchange Formats Supported: DXF / ASCII / APIC FED

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- ☐ Map Digitizing
- ☒ Digital Map Editing
- ☐ Topographical Structuring
- ☒ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☒ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**■ Map Display & Query**

- ☐ Change Map Projections
- ☐ Datum Changes
- ☒ Vector Overlay Analysis
- ☐ Surface Modeling
- ☒ Buffer generation
- ☒ Line-of-Sight Analysis
- ☐ Map Joining

**29. Image Processing Functionality:**

- ☒ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☒ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** not reported



PRODUCT NAME: Spatial Database Engine (SDE)

COMPANY/ORGANIZATION

Company Name: ESRI  
Contact Person(s): Arun Rajarao  
Street Address: 380 New York Street  
City, State: Redlands, CA  
Zip, Country: 92373, USA  
Phone: 909-793-2853  
Fax: 909-793-5953  
Email: info@esri.com (World Wide Web URL: http://www.esri.com)

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Spatial Database Management

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: Contact ESRI

5. Complete (fully capable) software system cost: Contact ESRI

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: N/A  
Asia: N/A  
Australia: N/A  
Europe: N/A  
North America: N/A  
South America: N/A

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: not reported

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☒ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☐ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. **Online help:** ☐ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. **User interface:** ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN, DG, HP, SGI

19. **Minimum hardware configuration:** UNIX workstation
20. **Devices supported:**

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input type="checkbox"/> CD-ROM: _____	
<input type="checkbox"/> Diskette: _____	_____
<input type="checkbox"/> Tape: _____	_____
<input type="checkbox"/> Displays: _____	_____
<input type="checkbox"/> Film Recorders: _____	_____
<input type="checkbox"/> Electrostatic Plotters: _____	_____
<input type="checkbox"/> Pen Plotters: _____	_____
<input type="checkbox"/> Ink Jet Printers: _____	_____
<input type="checkbox"/> Laser Printers: _____	_____
<input type="checkbox"/> Others: _____	_____

21. **Source code available:** ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☒ Other: \_\_\_\_\_  
☐ No

24. **Integrated Data Base Management System:** ☒ Yes ☐ No

25. **Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. **Data Exchange Formats Supported:** not reported

27. **If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** ESRI's Spatial Database Engine (SDE) is a high-performance, object-based spatial data access engine that employs true client/server architecture combined with a set of software services to perform fast, efficient spatial operations and management of large, shared, geographic data sets.

PRODUCT NAME: Spatial Query Server (SQS)

COMPANY/ORGANIZATION

Company Name: Vision International, of Autometric, Inc.  
Contact Person(s): Richard McKay  
Street Address: 5301 Shawnee Road  
City, State: Alexandria, VA  
Zip, Country: 22312, USA  
Phone: 703-658-4000  
Fax: 703-658-4426  
Email: rmckay@autometric.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Spatial Data Handling Toolkit

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other:

License fee is: ☐ One Time Charge ☐ Other Charge: not reported

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$3500 USD

5. Complete (fully capable) software system cost: \$3500 USD

USER BASE

6. Total number of licensed users: 160

7. Number of licensed users by continent: Africa:  
Asia:  
Australia:  
Europe:  
North America: 160  
South America:

8. Year of first installation: 1995

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other:

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:

11. Cost of support: ☐ Included in License ☒ Other: 15% License Fees

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other:

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☐ Hypertext ☒ N/A
17. User interface: ☐ Command Line ☐ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: N/A

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SGI/IRIX, SUN/SOLARIS '95, IBM/RS6000 '96, DEC/ALPHA '96

19. Minimum hardware configuration: not reported
20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input type="checkbox"/> CD-ROM: _____	
<input type="checkbox"/> Diskette: _____	
<input type="checkbox"/> Tape: _____	
<input type="checkbox"/> Displays: _____	_____
<input type="checkbox"/> Film Recorders: _____	_____
<input type="checkbox"/> Electrostatic Plotters: _____	_____
<input type="checkbox"/> Pen Plotters: _____	_____
<input type="checkbox"/> Ink Jet Printers: _____	_____
<input type="checkbox"/> Laser Printers: _____	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☐ Yes ☒ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☒ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: not reported

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query     |
| <input type="checkbox"/> Digital Map Editing          | <input type="checkbox"/> Change Map Projections  |
| <input type="checkbox"/> Topographical Structuring    | <input type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling        |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation       |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** SQS via spatial indexes, templates, and spatial query operators transforms the Sybase RDBMS into a spatial database. Spatial data may be queried along with relational data to return the desired results.

PRODUCT NAME: SPECTRUM System

COMPANY/ORGANIZATION

Company Name: Sokkia Corporation  
Contact Person(s): Jon O. Clark  
Street Address: 9111 Barton  
City, State: Overland Park, KS  
Zip, Country: 66214, USA  
Phone: 913-492-4900  
Fax: 913-492-0188  
Email: 10237.657@compuserve.com

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: GPS/GIS Data Collection System

LICENSING/PRICING

2. Is the product public domain or commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other:

License fee is: ☒ One Time Charge ☐ Other Charge:

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2,995

5. Complete (fully capable) software system cost: \$13,985

USER BASE

6. Total number of licensed users: not available

7. Number of licensed users by continent: Africa:  
Asia:  
Australia:  
Europe:  
North America:  
South America:

8. Year of first installation: 1994

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other:

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:

11. Cost of support: ☒ Included in License ☐ Other: 90 days free support then \$995.00/year

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other:

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: charge for major enhancement upgrades only

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☒ Portuguese ☐ Russian ☒ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

19. Minimum hardware configuration: 386 with coprocessor, 4MB RAM, VGA graphics and 80 MB hard disk space

20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: <u>N/A</u>	
<input type="checkbox"/> Frame Grabbers: <u>N/A</u>	
<input type="checkbox"/> Scanners: <u>N/A</u>	
<input checked="" type="checkbox"/> GPS: <u>S100 Receiver and RINEX files</u>	
<input checked="" type="checkbox"/> CD-ROM: <u>PC-DOS/Windows compatible</u>	<u>PC-DOS/Windows compatible</u>
<input checked="" type="checkbox"/> Diskette: <u>PC-DOS/Windows compatible</u>	<u>PC-DOS/Windows compatible</u>
<input checked="" type="checkbox"/> Tape: <u>PC-DOS/Windows compatible</u>	<u>PC-DOS/Windows compatible</u>
<input checked="" type="checkbox"/> Displays:	
<input type="checkbox"/> Film Recorders:	<u>N/A</u>
<input type="checkbox"/> Electrostatic Plotters:	<u>N/A</u>
<input type="checkbox"/> Pen Plotters:	<u>N/A</u>
<input checked="" type="checkbox"/> Ink Jet Printers:	<u>PC-DOS/Windows compatible</u>
<input checked="" type="checkbox"/> Laser Printers:	<u>PC-DOS/Windows compatible</u>
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☒ INFO ☒ Intergraph  
☒ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: SDR, ERDAS, MGE, "standard" ASCII

26. Data Exchange Formats Supported: DXF

27. If GIS Product: ☒ Vector ☐ Raster



**28. GIS Functionality:**

- |   |  |
|---|--|
| <input type="checkbox"/> Map Digitizing               | <input type="checkbox"/> Map Display & Query               |
| <input type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections |
| <input type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes          |
| <input type="checkbox"/> Network Flow Analysis        | <input type="checkbox"/> Vector Overlay Analysis           |
| <input type="checkbox"/> Cell-based (Raster) Modeling | <input type="checkbox"/> Surface Modeling                  |
| <input type="checkbox"/> Map Composition/Generation   | <input type="checkbox"/> Buffer generation                 |
| <input type="checkbox"/> Raster-Vector Conversion     | <input type="checkbox"/> Line-of-Sight Analysis            |
| <input type="checkbox"/> Edgematching                 | <input type="checkbox"/> Map Joining                       |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Customizable attribute library for enhanced GPS data collection; Submeter positioning; GPS navigation support; Pre-mission planning for GPS field work; Offset measurements; Stream measurements

PRODUCT NAME: SPRING

COMPANY/ORGANIZATION

Company Name: INPE, National Institute for Space Research  
Contact Person(s): Gilberto Camaro  
Street Address: Av. Astronautas, 17J8  
City, State: Sao Jose dos Campos, SP  
Zip, Country: 12201-010, Brazil  
Phone: 55-123-25-64-99  
Fax: 55-123-25-64-68  
Email: Gilberto@dpi.inpe.br

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☒ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: US \$5,000 (PC version)

5. Complete (fully capable) software system cost: US \$20,000 (UNIX version)

USER BASE

6. Total number of licensed users: 120

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: 120

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☐ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☒ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 32MB RAM, 8 bit graphics board, 1GB disk.
20. Devices supported:
- | INPUT  | OUTPUT                          |
|--|---------------------------------|
| <input checked="" type="checkbox"/> Digitizers: <u>Calcomp, Kurta</u>  |                                 |
| <input checked="" type="checkbox"/> Frame Grabbers: <u>TIFF format</u> |                                 |
| <input checked="" type="checkbox"/> Scanners: <u>RLE, TIFF formats</u> |                                 |
| <input type="checkbox"/> GPS: _____                                    |                                 |
| <input checked="" type="checkbox"/> CD-ROM: _____                      |                                 |
| <input type="checkbox"/> Diskette: _____                               |                                 |
| <input checked="" type="checkbox"/> Tape: <u>8mm, DAT-4mm, QIC-150</u> | <u>Same</u>                     |
| <input checked="" type="checkbox"/> Displays:                          | <u>X-Windows, 8/24 bits</u>     |
| <input checked="" type="checkbox"/> Film Recorders:                    | <u>PostScript, TIFF formats</u> |
| <input checked="" type="checkbox"/> Electrostatic Plotters:            | <u>PostScript, HPGL formats</u> |
| <input checked="" type="checkbox"/> Pen Plotters:                      | <u>HPGL format</u>              |
| <input checked="" type="checkbox"/> Ink Jet Printers:                  | <u>HPGL format</u>              |
| <input checked="" type="checkbox"/> Laser Printers:                    | <u>PostScript</u>               |
| <input type="checkbox"/> Others: _____                                 | _____                           |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
22. Batch capability: ☐ Yes ☒ No
23. Linkable libraries for data structure access: ☒ Yes: ☐ C ☒ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: Ingres
26. Data Exchange Formats Supported: Not reported
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- ☐ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - ☐ Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining

- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Image segmentation, digital terrain modelling.

PRODUCT NAME: Telecomms

#### COMPANY/ORGANIZATION

Company Name: Laser-Scan  
Contact Person(s): Parvis Ansary  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: parvis@lsl.co.uk

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

#### LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☐ One Time Charge ☒ Other Charge: both - to be negotiated

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: £20,000

5. Complete (fully capable) software system cost: £29,000 (including 1st year support)

#### USER BASE

6. Total number of licensed users: 80

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: 60  
Australia: \_\_\_\_\_  
Europe: 20  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1993

#### SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: @ 15% of software cost (£5,000 P/A)

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. **System documentation available as:** ☒ Hardcopy ☐ Electronic Files
15. **Languages available:** ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Korean
16. **Online help:** ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. **User interface:** ☐ Command Line ☐ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. **Operating systems supported:** ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: not reported

19. **Minimum hardware configuration:** 64 MB (RAM), 400 MB min. free disk space, Ingres 6.4 or Oracle 7; HP (Apollo 9000/733, 750): CRX color graphics, HP UX workstation software V9; Digital (DecStation 5000, series 100 and 200 models): PX, HX color graphics, ULTRIX workstation software 4.3; SUN (Sparc 2 or Sparc 10): GX color graphics, solaris 1.1 (CNC OPENWindows v3.0), 1X1 OSF/Motif window manager (MWM 1.1.4); IBM RS6000 (models 250, 320, 320H, 530 or 530H): Skyways color graphics, AIX 3.2, Fortran Run Time License 02.02.0100.003, Xwindow development libraries.

20. **Devices supported:**

### INPUT

### OUTPUT

- ☒ Digitizers: \_\_\_\_\_
- ☒ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: \_\_\_\_\_
- ☒ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

See above

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. **Source code available:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
22. **Batch capability:** ☒ Yes ☐ No

23. **Linkable libraries for data structure access:** ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN

☐ Pascal ☐ Other: \_\_\_\_\_

◇ No

**24. Integrated Data Base Management System:** ◆ Yes ◇ No

**25. Data Base File Types Supported:** ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☒ Other: INGRES

**26. Data Exchange Formats Supported:** not reported

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Map Digitizing            | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing       | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring | <input checked="" type="checkbox"/> Datum Changes           |
| <input type="checkbox"/> Network Flow Analysis                | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input type="checkbox"/> Cell-based (Raster) Modeling         | <input type="checkbox"/> Surface Modeling                   |
| <input type="checkbox"/> Map Composition/Generation           | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion  | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input type="checkbox"/> Edgematching                         | <input type="checkbox"/> Map Joining                        |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ◆ Yes ◇ No

**31. Expert system capability:** ◇ Yes ◇ No

**32. Spatial index supported:** ◆ Yes ◇ No

**33. Object Oriented Architecture:** ◇ Yes ◇ No

**Please describe additional features:** 1) Extensible functionality using tool kit facility (optional). 2) Complete development environment (optional)

PRODUCT NAME: TGIS (Telecommunications Geographic Information System)

COMPANY/ORGANIZATION

Company Name: The James & Leonard Group, Ltd.  
Contact Person(s): Victor La Sala, P.E., Bea Brillantino  
Street Address: 87 Bethpage Rd.  
City, State: Hicksville, NY  
Zip, Country: 11801-1503, USA  
Phone: 516-938-5666  
Fax: 516-938-7796  
Email: Not reported

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: Telecommunications Management

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☒ System ☒ Site ☐ Other: All

License fee is: ☒ One Time Charge ☒ Other Charge: Possible custom fees

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$3,500

5. Complete (fully capable) software system cost: \$6,000

USER BASE

6. Total number of licensed users: 50

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: 50  
South America: \_\_\_\_\_

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: US

11. Cost of support: ☐ Included in License ☒ Other: Annual support fee

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: As available

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: As necessary



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other:\_\_\_\_\_
16. Online help: ☒ Basic ☐ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other:\_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☒ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other:\_\_\_\_\_
19. Minimum hardware configuration: 486 - 33MHz, 4MB of RAM, mouse with drivers, hard drive, Windows
20. Devices supported:
- | INPUT  | OUTPUT |
|--|--------|
| <input type="checkbox"/> Digitizers:_____  |        |
| <input type="checkbox"/> Frame Grabbers:_____                                    |        |
| <input type="checkbox"/> Scanners:_____  |        |
| <input type="checkbox"/> GPS:_____   |        |
| <input type="checkbox"/> CD-ROM: _____   |        |
| <input type="checkbox"/> Diskette:_____  |        |
| <input type="checkbox"/> Tape:_____  |        |
| <input type="checkbox"/> Displays:_____  | _____  |
| <input type="checkbox"/> Film Recorders:_____                                    | _____  |
| <input type="checkbox"/> Electrostatic Plotters:_____                            | _____  |
| <input type="checkbox"/> Pen Plotters:_____                                      | _____  |
| <input type="checkbox"/> Ink Jet Printers:_____                                  | _____  |
| <input type="checkbox"/> Laser Printers:_____                                    | _____  |
| <input checked="" type="checkbox"/> Others: <u>All Windows-supported devices</u> | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other:\_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other:\_\_\_\_\_
26. Data Exchange Formats Supported: MAPINFO
27. If GIS Product: ☒ Vector ☐ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Map Digitizing</li><li><input checked="" type="checkbox"/> Digital Map Editing</li><li><input type="checkbox"/> Topographical Structuring</li><li><input type="checkbox"/> Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li><input checked="" type="checkbox"/> Map Composition/Generation</li><li><input type="checkbox"/> Raster-Vector Conversion</li><li><input type="checkbox"/> Edgematching</li></ul> | <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Map Display &amp; Query<ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Change Map Projections</li><li><input type="checkbox"/> Datum Changes</li><li><input type="checkbox"/> Vector Overlay Analysis</li><li><input type="checkbox"/> Surface Modeling</li></ul></li><li><input checked="" type="checkbox"/> Buffer generation</li><li><input type="checkbox"/> Line-of-Sight Analysis</li><li><input type="checkbox"/> Map Joining</li></ul> |
|---|--|

**29. Image Processing Functionality:**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li><input type="checkbox"/> Interactive Display</li><li><input type="checkbox"/> Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering<ul style="list-style-type: none"><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul></li></ul> |
|---|--|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** "TGIS" is a custom program designed to facilitate outside plant management for telecommunications and other related industries.

PRODUCT NAME: TNTmips (The Map and Image Processing System)

COMPANY/ORGANIZATION

Company Name: MicroImages, Inc.  
Contact Person(s): Terry Peterson  
Street Address: 201 N. 8th St.  
City, State: Lincoln, NE  
Zip, Country: 68508-1347, USA  
Phone: 402-477-9554  
Fax: 402-477-9559  
Email: info@microimages.com

1. Type of product:

☒ GIS ☒ Image Processing ☐ AM/FM ☒ CAD ☒ Other: Desktop cartography relational dB

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: US \$3000 for MS Windows; US \$10000 for Workstations

5. Complete (fully capable) software system cost: US \$3000

USER BASE

6. Total number of licensed users: 1500

7. Number of licensed users by continent: Africa: 100  
Asia: 40  
Australia: 80  
Europe: 120  
North America: 1160  
South America: 100

8. Year of first installation: 1986

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: 4 times per year

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \$800/yr North Am.  
\$1000/yr others

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☒ Russian ☒ Spanish ☐ Other: \_
16. Online help: ☐ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☐ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: totally interact windows

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☒ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN (Solaris 1.x and 2.x), SGI  
IRIS, HP HPUX, IBM AUX 3.x and 4.x, Data General DGUX, DEC ULTRIX and OSF.

19. Minimum hardware configuration: Standard PC with 16MB, Workstation with 16MB.
20. Devices supported:

### INPUT

- ☒ Digitizers: most all
- ☒ Frame Grabbers: Targa boards and others via  
"Twain"
- ☒ Scanners: All with Twain drivers
- ☒ GPS: via dBase import
- ☒ CD-ROM: any supported by system
- ☒ Diskette: any supported by system
- ☒ Tape: 8mm and open reel CCT
- ☒ Displays:

### OUTPUT

- ☒ Film Recorders: Via TIFF and TARGA
- ☒ Electrostatic Plotters: All
- ☒ Pen Plotters: All with HPGL
- ☒ Ink Jet Printers: All of any size via PostScript and  
Windows drivers
- ☒ Laser Printers: All of any size via PostScript and  
Windows drivers
- ☐ Others: \_\_\_\_\_

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_

☐ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

**25. Data Base File Types Supported:**    ☒ dBase   ☒ Foxbase   ☐ IMS   ☐ INFO   ☐ Intergraph  
   ☐ Lotus   ☐ Oracle   ☐ Paradox   ☐ Progress  
   ☐ Sybase   ☐ Other:\_\_\_\_\_

**26. Data Exchange Formats Supported:** many for rasters, topological vectors, CAD, TINs, dB

**27. If GIS Product:**   ☒ Vector    ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Map Digitizing               | <input checked="" type="checkbox"/> Map Display & Query     |
| <input checked="" type="checkbox"/> Digital Map Editing          | <input checked="" type="checkbox"/> Change Map Projections  |
| <input checked="" type="checkbox"/> Topographical Structuring    | <input checked="" type="checkbox"/> Datum Changes           |
| <input checked="" type="checkbox"/> Network Flow Analysis        | <input checked="" type="checkbox"/> Vector Overlay Analysis |
| <input checked="" type="checkbox"/> Cell-based (Raster) Modeling | <input checked="" type="checkbox"/> Surface Modeling        |
| <input checked="" type="checkbox"/> Map Composition/Generation   | <input checked="" type="checkbox"/> Buffer generation       |
| <input checked="" type="checkbox"/> Raster-Vector Conversion     | <input checked="" type="checkbox"/> Line-of-Sight Analysis  |
| <input checked="" type="checkbox"/> Edgematching                 | <input checked="" type="checkbox"/> Map Joining             |

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Interactive Display       | <input checked="" type="checkbox"/> Image Enhancement                 |
| <input checked="" type="checkbox"/> Geometric Rectification   | <input checked="" type="checkbox"/> Spatial Filtering                 |
| <input checked="" type="checkbox"/> Image Mosaicking          | <input checked="" type="checkbox"/> Fourier Analysis                  |
| <input checked="" type="checkbox"/> Radiometric Corrections   | <input checked="" type="checkbox"/> Multivariate/Statistical Analysis |
| <input checked="" type="checkbox"/> Raster GIS Modeling       | <input checked="" type="checkbox"/> Radar Geocoding & Analysis        |
| <input checked="" type="checkbox"/> Hardcopy Map Comp./Anno.  | <input checked="" type="checkbox"/> Principal Components Analysis     |
| <input checked="" type="checkbox"/> Filtering                 | <input checked="" type="checkbox"/> Density Slicing                   |
| <input checked="" type="checkbox"/> Supervised Classification | <input checked="" type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:**   ♦ Yes   ♦ No

**31. Expert system capability:**   ♦ Yes   ♦ No

**32. Spatial index supported:**   ♦ Yes   ♦ No

**33. Object Oriented Architecture:**   ♦ Yes   ♦ No

**Please describe additional features:** Many. Detailed brochures available on request.

PRODUCT NAME: TracTrix

COMPANY/ORGANIZATION

Company Name: Trix Systems, Inc.  
Contact Person(s): Chris Sweetnam  
Street Address: 68 Smith St.  
City, State: Chelmsford, MA  
Zip, Country: 01824, USA  
Phone: 800-326-4443 or 508-256-4445  
Fax: 508-256-9593  
Email: sweetnam@trixsystems.com

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☒ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☐ Site ☐ Other: \$130-950

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☒ No

4. Basic (minimal) software system cost: \$130

5. Complete (fully capable) software system cost: \$950

USER BASE

6. Total number of licensed users: >2,500

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☐ Courses ☐ Videos ☐ Tutorials ☒ Other: Consulting

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☒ Included in License ☐ Other: \_\_\_\_\_

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☐ Included in License or Maintenance Contract ☒ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☒ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☒ Other: Swedish
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☒ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: not reported
20. Devices supported:
- | INPUT   | OUTPUT |
|---|--------|
| <input type="checkbox"/> Digitizers: _____                            |        |
| <input type="checkbox"/> Frame Grabbers: _____                        |        |
| <input checked="" type="checkbox"/> Scanners: <u>TWAIN and others</u> |        |
| <input type="checkbox"/> GPS: _____                                   |        |
| <input type="checkbox"/> CD-ROM: _____                                |        |
| <input type="checkbox"/> Diskette: _____                              |        |
| <input type="checkbox"/> Tape: _____                                  |        |
| <input type="checkbox"/> Displays: _____                              | _____  |
| <input type="checkbox"/> Film Recorders: _____                        | _____  |
| <input checked="" type="checkbox"/> Electrostatic Plotters: _____     | _____  |
| <input checked="" type="checkbox"/> Pen Plotters: _____               | _____  |
| <input checked="" type="checkbox"/> Ink Jet Printers: _____           | _____  |
| <input checked="" type="checkbox"/> Laser Printers: _____             | _____  |
| <input type="checkbox"/> Others: _____                                | _____  |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☐ Yes ☐ No
25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_
26. Data Exchange Formats Supported: Many raster formats
27. If GIS Product: ☐ Vector ☐ Raster
28. GIS Functionality:

- ☐ Map Digitizing
- ☐ Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☒ Raster-Vector Conversion
- ☐ Edgematching

- ☐ Map Display & Query
  - ☐ Change Map Projections
  - ☐ Datum Changes
  - ☐ Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - ☐ Line-of-Sight Analysis
  - ☐ Map Joining

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** Trix Systems, Inc. provides software applications for automatic paper- to-CAD (raster to vector) conversion, scanning, viewing, redlining, image file format conversion (including vector to raster), network based engineering document management and facilities management.



PRODUCT NAME: TRANSCAD

COMPANY/ORGANIZATION

Company Name: Caliper Corporation  
Contact Person(s): Graham Barrowman  
Street Address: 1172 Beacon Street  
City, State: Newton, MA  
Zip, Country: 02161-9926, USA  
Phone: 617-527-4700  
Fax: 617-527-5113  
Email: graham@caliper.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$2995

5. Complete (fully capable) software system cost: \$10,000

USER BASE

6. Total number of licensed users: N/A

7. Number of licensed users by continent: Africa: N/A  
Asia: N/A  
Australia: N/A  
Europe: N/A  
North America: N/A  
South America: N/A

8. Year of first installation: 1989

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: Annual maintenance fee

12. Software updates: ☐ Annually ☐ Semiannually ☒ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: toolbar/toolbox

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: 80486, 8 MB RAM, CD-ROM drive
20. Devices supported:
- | INPUT   | OUTPUT                                     |
|---|--|
| <input checked="" type="checkbox"/> Digitizers: <u>Wintab compliant</u> |  |
| <input type="checkbox"/> Frame Grabbers: _____                          |  |
| <input checked="" type="checkbox"/> Scanners: <u>Windows compliant</u>  |  |
| <input checked="" type="checkbox"/> GPS: <u>Trimble mobile GPS</u>      |  |
| <input checked="" type="checkbox"/> CD-ROM: _____                       |  |
| <input checked="" type="checkbox"/> Diskette: _____                     |  |
| <input checked="" type="checkbox"/> Tape: _____                         |  |
| <input checked="" type="checkbox"/> Displays:                           | <u>High resolution</u>                     |
| <input type="checkbox"/> Film Recorders:                                | _____                                      |
| <input checked="" type="checkbox"/> Electrostatic Plotters:             | _____                                      |
| <input checked="" type="checkbox"/> Pen Plotters:                       | <u>Any Windows compliant output device</u> |
| <input checked="" type="checkbox"/> Ink Jet Printers:                   | _____                                      |
| <input checked="" type="checkbox"/> Laser Printers:                     | _____                                      |
| <input checked="" type="checkbox"/> Others: _____                       | _____                                      |
21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☒ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☒ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☒ Lotus ☒ Oracle ☒ Paradox ☐ Progress  
☒ Sybase ☒ Other: Any ODBC compliant DBMS
26. Data Exchange Formats Supported: ARC/INFO, MAP/INFO, ATLAS, DXF, OS NTF
27. If GIS Product: ☒ Vector ☒ Raster
28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching

**29. Image Processing Functionality:**

- ☐ Interactive Display
- ☐ Geometric Rectification
- Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - ☐ Map Joining

- ☐ Image Enhancement
- ☐ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - ☐ Density Slicing
  - ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** GIS development kit - supports the creation of map server applications, macro programs and custom user interfaces. Support for OLE 2.0 and open database connectivity (ODBC).

PRODUCT NAME: VISTA

COMPANY/ORGANIZATION

Company Name: DATRON/TRANSCO, Inc.  
Contact Person(s): Jacques Huyghes  
Street Address: 1500 Buckeye Drive  
City, State: Milpitas, CA  
Zip, Country: 95035, USA  
Phone: 408-432-3400  
Fax: 408-433-0965  
Email: jhuyghe@i2s.com

1. Type of product:

☐ GIS ☒ Image Processing ☐ AM/FM ☐ CAD ☐ Other:                     

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☐ User ☒ System ☒ Site ☒ Other: networked floating licenses

License fee is: ☒ One Time Charge ☒ Other Charge: maintenance

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: \$6,000

5. Complete (fully capable) software system cost: \$18,000

USER BASE

6. Total number of licensed users: 1500

7. Number of licensed users by continent: Africa: 100  
Asia: 500  
Australia: 20  
Europe: 200  
North America: 600  
South America: 80

8. Year of first installation: 1975

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☒ Tutorials ☐ Other:                     

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other:                     

11. Cost of support: ☒ Included in License ☒ Other: yearly fee

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other:                     

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other:

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☒ French  
☐ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☒ Command Line ☒ Menus ☐ User-Customizable Menus  
☒ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: SUN, HP, SGI

19. Minimum hardware configuration: 32MB RAM, 200MB disk space, (110 SLQ, 100 SWAP)
20. Devices supported:

### INPUT

- ☒ Digitizers: mouse, Calcomp, Altek, Summagraphic
- ☒ Frame Grabbers: Workstation dependent
- ☒ Scanners: all TIFF, PostScript, BIL, BSQ types
- ☒ GPS: support for ASCII, XYZ files
- ☒ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☒ Tape: 8mm, 9 track, 1/4 QIC
- ☒ Displays: \_\_\_\_\_
- ☒ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

All Windows

All TIFF and PostScript

All TIFF and PostScript

All TIFF and PostScript

All TIFF and PostScript

All TIFF and PostScript

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☒ Yes: ☒ C ☐ C++ ☒ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No

24. Integrated Data Base Management System: ☐ Yes ☒ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: ERDAS, BIC, BSQ, TIFF, DXF

27. If GIS Product: ☐ Vector ☒ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching
- ☐ Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - ☐ Surface Modeling
  - ☐ Buffer generation
  - Line-of-Sight Analysis
  - Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** not reported

PRODUCT NAME: VTRAK for Open Systems

COMPANY/ORGANIZATION

Company Name: Laser-Scan  
Contact Person(s): Paul Hardy  
Street Address: Cambridge Science Park, Milton Road  
City, State: Cambridge  
Zip, Country: CB4 4FY, UK  
Phone: 44-01223-420414  
Fax: 44-01223-420044  
Email: paul@lsl.co.uk

1. Type of product:

☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: map data capture

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No

4. Basic (minimal) software system cost: not reported

5. Complete (fully capable) software system cost: not reported

USER BASE

6. Total number of licensed users: not reported

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: \_\_\_\_\_  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1990

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: maintenance contract

12. Software updates: ☒ Annually ☐ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☐ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☐ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: function buttons, trackball

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: Sun SunOS and Motif: Sun Solaris 2 and Motif: DEC Alpha UNIX and Motif: IBM AIX and Motif: HP UX and Motif: DEC Ultrix and Motif

19. Minimum hardware configuration: Workstation and 32MB memory
20. Devices supported:

INPUT	OUTPUT
<input type="checkbox"/> Digitizers: _____	
<input type="checkbox"/> Frame Grabbers: _____	
<input checked="" type="checkbox"/> Scanners: <u>TIFF, Scitex, Scan Graphics</u>	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: _____	
<input checked="" type="checkbox"/> Displays: _____	<u>X-terminals</u>
<input type="checkbox"/> Film Recorders: _____	_____
<input type="checkbox"/> Electrostatic Plotters: _____	_____
<input type="checkbox"/> Pen Plotters: _____	_____
<input type="checkbox"/> Ink Jet Printers: _____	_____
<input type="checkbox"/> Laser Printers: _____	_____
<input type="checkbox"/> Others: _____	_____

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph



☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☒ Other: INGRES

**26. Data Exchange Formats Supported:** DXF, ARC/INFO, GIF, TIFF

**27. If GIS Product:** ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Map Digitizing            | <input type="checkbox"/> Map Display & Query               |
| <input checked="" type="checkbox"/> Digital Map Editing       | <input checked="" type="checkbox"/> Change Map Projections |
| <input checked="" type="checkbox"/> Topographical Structuring | <input checked="" type="checkbox"/> Datum Changes          |
| <input type="checkbox"/> Network Flow Analysis                | <input type="checkbox"/> Vector Overlay Analysis           |
| <input type="checkbox"/> Cell-based (Raster) Modeling         | <input type="checkbox"/> Surface Modeling                  |
| <input type="checkbox"/> Map Composition/Generation           | <input type="checkbox"/> Buffer generation                 |
| <input checked="" type="checkbox"/> Raster-Vector Conversion  | <input type="checkbox"/> Line-of-Sight Analysis            |
| <input checked="" type="checkbox"/> Edgematching              | <input type="checkbox"/> Map Joining                       |

**29. Image Processing Functionality:**

- |  |  |
|--|--|
| <input type="checkbox"/> Interactive Display       | <input type="checkbox"/> Image Enhancement                 |
| <input type="checkbox"/> Geometric Rectification   | <input type="checkbox"/> Spatial Filtering                 |
| <input type="checkbox"/> Image Mosaicking          | <input type="checkbox"/> Fourier Analysis                  |
| <input type="checkbox"/> Radiometric Corrections   | <input type="checkbox"/> Multivariate/Statistical Analysis |
| <input type="checkbox"/> Raster GIS Modeling       | <input type="checkbox"/> Radar Geocoding & Analysis        |
| <input type="checkbox"/> Hardcopy Map Comp./Anno.  | <input type="checkbox"/> Principal Components Analysis     |
| <input type="checkbox"/> Filtering                 | <input type="checkbox"/> Density Slicing                   |
| <input type="checkbox"/> Supervised Classification | <input type="checkbox"/> Unsupervised Classification       |

**30. Multi-user Capability:** ☒ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☒ No

**32. Spatial index supported:** ☒ Yes ☐ No

**33. Object Oriented Architecture:** ☒ Yes ☐ No

**Please describe additional features:** Automatic line-following digitizing; automatic height coding; bulk data capture; symbol recognition; text recognition; integration with LAMPS2 object-oriented mapping product

PRODUCT NAME: WinGIS

COMPANY/ORGANIZATION

Company Name: PROGIS  
Contact Person(s): DI Walter H. Mayer  
Street Address: Italienerstr. 3  
City, State: 9500 Villach  
Zip, Country: Austria  
Phone: 43-4242-26332  
Fax: 43-4242-26332-7  
Email: 100102.2170@compuserve.com

1. Type of product:

☒ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☒ Other: mapping, geo-multimedia

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: + update

3. Turnkey system available (bundled hardware & software): ☐ Yes ☐ No

4. Basic (minimal) software system cost: 1.495 US \$

5. Complete (fully capable) software system cost: 6.995 US \$

USER BASE

6. Total number of licensed users: 600

7. Number of licensed users by continent: Africa: 4  
Asia: 30  
Australia: 50  
Europe: 200  
North America: 150  
South America: 8

8. Year of first installation: 1993

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☒ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: maintenance contract

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☒ Arabic ☐ Bengali ☒ English ☒ French  
☒ German ☐ Hindi ☒ Japanese ☐ Mandarin  
☒ Portuguese ☒ Russian ☒ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☒ Basic ☒ Context Sensitive ☒ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☐ User-Customizable Menus  
☐ User-Generated Macros ☒ Other: WinMAP Development Station  
(PROGIS SDK)

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☐ UNIX/X-Windows ☒ PC-DOS/Windows ☒ Windows95  
☒ Windows/NT ☒ Macintosh ☒ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_
19. Minimum hardware configuration: PC ATZ 486; 8MB RAM; 50 MHz; hard disk depends from project size.
20. Devices supported:

### INPUT

- ☒ Digitizers: Aristo, Calcomp, Polarplanimeter ec.  
Nearly all digitizers which support  
WinTAB
- ☐ Frame Grabbers: \_\_\_\_\_
- ☒ Scanners: Hybrid systems for loading BMP files
- ☒ GPS: link to all GPS receivers which support DDE
- ☐ CD-ROM: \_\_\_\_\_
- ☐ Diskette: \_\_\_\_\_
- ☐ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☒ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: \_\_\_\_\_
- ☒ Ink Jet Printers: \_\_\_\_\_
- ☒ Laser Printers: \_\_\_\_\_
- ☐ Others: \_\_\_\_\_

### OUTPUT

- 14" monitor +
- AVI format
- Support of all printers and plotters  
which have Windows drivers
- Windows driver
- Windows driver
- Windows driver

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No
22. Batch capability: ☐ Yes ☐ No
23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☐ No
24. Integrated Data Base Management System: ☒ Yes ☐ No
25. Data Base File Types Supported: ☒ dBase ☐ Foxbase ☐ IMS ☐ INFO ☒ Intergraph

☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress

☐ Sybase ☐ Other: AS/400; DB 2; SQL

**26. Data Exchange Formats Supported:** yes

**27. If GIS Product:** ☐ Vector ☐ Raster

**28. GIS Functionality:**

☐ Map Digitizing

☐ Digital Map Editing

☐ Topographical Structuring

☐ Network Flow Analysis

☐ Cell-based (Raster) Modeling

☐ Map Composition/Generation

☐ Raster-Vector Conversion

☐ Edgematching

☐ Map Display & Query

☐ Change Map Projections

☐ Datum Changes

☐ Vector Overlay Analysis

☐ Surface Modeling

☐ Buffer generation

☐ Line-of-Sight Analysis

☐ Map Joining

**29. Image Processing Functionality:**

☐ Interactive Display

☐ Geometric Rectification

☐ Image Mosaicking

☐ Radiometric Corrections

☐ Raster GIS Modeling

☐ Hardcopy Map Comp./Anno.

☐ Filtering

☐ Supervised Classification

☐ Image Enhancement

☐ Spatial Filtering

☐ Fourier Analysis

☐ Multivariate/Statistical Analysis

☐ Radar Geocoding & Analysis

☐ Principal Components Analysis

☐ Density Slicing

☐ Unsupervised Classification

**30. Multi-user Capability:** ☐ Yes ☐ No

**31. Expert system capability:** ☐ Yes ☐ No

**32. Spatial index supported:** ☐ Yes ☐ No

**33. Object Oriented Architecture:** ☐ Yes ☐ No

**Please describe additional features:** contact company

PRODUCT NAME: Xcable

COMPANY/ORGANIZATION

Company Name: Tekla Oy  
Contact Person(s): Risto Sajaniemi  
Street Address: Koronakatu 1  
City, State: 02210 Espoo  
Zip, Country: Finland  
Phone: 358-0-8879500  
Fax: 358-0-8039489  
Email: rs@tekla.fi

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☐ No

4. Basic (minimal) software system cost: available on request

5. Complete (fully capable) software system cost: available on request

USER BASE

6. Total number of licensed users: 70

7. Number of licensed users by continent: Africa: \_\_\_\_\_  
Asia: \_\_\_\_\_  
Australia: \_\_\_\_\_  
Europe: 70  
North America: \_\_\_\_\_  
South America: \_\_\_\_\_

8. Year of first installation: 1992

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☒ Other: Europe

11. Cost of support: ☐ Included in License ☒ Other: maintenance agreement

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_

## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: HP, VUEWM, MWM

19. Minimum hardware configuration: UNIX-workstation/x-terminal, disk 2MB, dat-drive

20. Devices supported:

### INPUT

### OUTPUT

- ☒ Digitizers: Calcomp etc.
- ☐ Frame Grabbers: \_\_\_\_\_
- ☐ Scanners: \_\_\_\_\_
- ☐ GPS: \_\_\_\_\_
- ☒ CD-ROM: \_\_\_\_\_
- ☒ Diskette: \_\_\_\_\_
- ☒ Tape: \_\_\_\_\_
- ☒ Displays: \_\_\_\_\_
- ☐ Film Recorders: \_\_\_\_\_
- ☒ Electrostatic Plotters: \_\_\_\_\_
- ☒ Pen Plotters: HP, Calcomp, etc.
- ☒ Ink Jet Printers: Calcomp, HP, Canon, etc.
- ☒ Laser Printers: Canon, HP, etc.
- ☒ Others: Calcomp, drawing-master

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DXF, FINGIS, several raster formats

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>■ Map Digitizing</li><li>■ Digital Map Editing</li><li><input type="checkbox"/> Topographical Structuring</li><li><input type="checkbox"/> Network Flow Analysis</li><li><input type="checkbox"/> Cell-based (Raster) Modeling</li><li><input type="checkbox"/> Map Composition/Generation</li><li><input type="checkbox"/> Raster-Vector Conversion</li><li><input type="checkbox"/> Edgematching</li></ul> | <ul style="list-style-type: none"><li>■ Map Display &amp; Query</li><li>■ Change Map Projections</li><li><input type="checkbox"/> Datum Changes</li><li><input type="checkbox"/> Vector Overlay Analysis</li><li><input type="checkbox"/> Surface Modeling</li><li><input type="checkbox"/> Buffer generation</li><li><input type="checkbox"/> Line-of-Sight Analysis</li><li>■ Map Joining</li></ul> |
|--|---|

**29. Image Processing Functionality:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Interactive Display</li><li>■ Geometric Rectification</li><li><input type="checkbox"/> Image Mosaicking</li><li><input type="checkbox"/> Radiometric Corrections</li><li><input type="checkbox"/> Raster GIS Modeling</li><li><input type="checkbox"/> Hardcopy Map Comp./Anno.</li><li><input type="checkbox"/> Filtering</li><li><input type="checkbox"/> Supervised Classification</li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Image Enhancement</li><li><input type="checkbox"/> Spatial Filtering</li><li><input type="checkbox"/> Fourier Analysis</li><li><input type="checkbox"/> Multivariate/Statistical Analysis</li><li><input type="checkbox"/> Radar Geocoding &amp; Analysis</li><li><input type="checkbox"/> Principal Components Analysis</li><li><input type="checkbox"/> Density Slicing</li><li><input type="checkbox"/> Unsupervised Classification</li></ul> |
|---|---|

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Xcable is a network planning and management software for fixed telecom networks. All functionality is graphics-oriented, for example, modelling and planning of the network structure. All the data is stored in an Oracle-database.

PRODUCT NAME: Xpower

COMPANY/ORGANIZATION

Company Name: Tekla Oy  
Contact Person(s): Risto Sajaniemi  
Street Address: Koronakatu 1  
City, State: 02210 Espoo  
Zip, Country: Finland  
Phone: 358-0-8879500  
Fax: 358-0-8039489  
Email: rs@tekla.fi

1. Type of product:

☒ GIS ☐ Image Processing ☒ AM/FM ☐ CAD ☐ Other: \_\_\_\_\_

LICENSING/PRICING

2. Is the product public domain *or* commercial?

◆ Commercial Product

Licensed by: ☒ User ☐ System ☐ Site ☐ Other: \_\_\_\_\_

License fee is: ☒ One Time Charge ☐ Other Charge: \_\_\_\_\_

3. Turnkey system available (bundled hardware & software): ☐ Yes ☐ No

4. Basic (minimal) software system cost: available on request

5. Complete (fully capable) software system cost: available on request

USER BASE

6. Total number of licensed users: 500

7. Number of licensed users by continent: Africa: 50  
Asia: 50  
Australia: \_\_\_\_\_  
Europe: 350  
North America: 50  
South America: \_\_\_\_\_

8. Year of first installation: 1987

SUPPORT/UPDATES

9. Training available: ☒ Courses ☐ Videos ☐ Tutorials ☐ Other: \_\_\_\_\_

10. Software support available: ☐ Worldwide ☐ Not Available ☐ Other: \_\_\_\_\_

11. Cost of support: ☐ Included in License ☒ Other: maintenance agreement

12. Software updates: ☐ Annually ☒ Semiannually ☐ Other: \_\_\_\_\_

13. Cost of updates: ☒ Included in License or Maintenance Contract ☐ Other: \_\_\_\_\_



## DOCUMENTATION/INTERFACE

14. System documentation available as: ☒ Hardcopy ☒ Electronic Files
15. Languages available: ☐ Arabic ☐ Bengali ☒ English ☐ French  
☐ German ☐ Hindi ☐ Japanese ☐ Mandarin  
☐ Portuguese ☐ Russian ☐ Spanish ☐ Other: \_\_\_\_\_
16. Online help: ☐ Basic ☒ Context Sensitive ☐ Hypertext ☐ N/A
17. User interface: ☐ Command Line ☒ Menus ☒ User-Customizable Menus  
☐ User-Generated Macros ☐ Other: \_\_\_\_\_

## TECHNICAL/FUNCTIONAL

18. Operating systems supported: ☒ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95  
☐ Windows/NT ☐ Macintosh ☐ PC-OS/2 ☐ OS/2 WARP  
☐ VAX/VMS ☐ Other: \_\_\_\_\_

If UNIX/X-Windows, list vendors and window managers supported: HP, vewwm, mwm

19. Minimum hardware configuration: UNIX-workstation/x-terminal, disk 2MB, dat-drive
20. Devices supported:

INPUT	OUTPUT
<input checked="" type="checkbox"/> Digitizers: <u>Calcomp etc.</u>	
<input type="checkbox"/> Frame Grabbers: _____	
<input type="checkbox"/> Scanners: _____	
<input type="checkbox"/> GPS: _____	
<input checked="" type="checkbox"/> CD-ROM: _____	
<input checked="" type="checkbox"/> Diskette: _____	
<input checked="" type="checkbox"/> Tape: _____	
<input checked="" type="checkbox"/> Displays: _____	
<input type="checkbox"/> Film Recorders: _____	
<input checked="" type="checkbox"/> Electrostatic Plotters: _____	
<input checked="" type="checkbox"/> Pen Plotters: _____	<u>HP, Calcomp, etc.</u>
<input checked="" type="checkbox"/> Ink Jet Printers: _____	<u>Calcomp, HP, Canon, etc.</u>
<input checked="" type="checkbox"/> Laser Printers: _____	<u>Canon, HP, etc.</u>
<input checked="" type="checkbox"/> Others: <u>Calcomp, drawing-master</u>	

21. Source code available: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN ☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

22. Batch capability: ☒ Yes ☐ No

23. Linkable libraries for data structure access: ☐ Yes: ☐ C ☐ C++ ☐ FORTRAN  
☐ Pascal ☐ Other: \_\_\_\_\_  
☒ No

24. Integrated Data Base Management System: ☒ Yes ☐ No

25. Data Base File Types Supported: ☐ dBase ☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph  
☐ Lotus ☒ Oracle ☐ Paradox ☐ Progress  
☐ Sybase ☐ Other: \_\_\_\_\_

26. Data Exchange Formats Supported: DXF, FINGIS, several raster formats

27. If GIS Product: ☒ Vector ☒ Raster

**28. GIS Functionality:**

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- ☐ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- ☐ Raster-Vector Conversion
- ☐ Edgematching
- Map Display & Query
- Change Map Projections
- ☐ Datum Changes
- ☐ Vector Overlay Analysis
- ☐ Surface Modeling
- ☐ Buffer generation
- ☐ Line-of-Sight Analysis
- Map Joining

**29. Image Processing Functionality:**

- Interactive Display
- Geometric Rectification
- ☐ Image Mosaicking
- ☐ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification
- ☐ Image Enhancement
- ☐ Spatial Filtering
- ☐ Fourier Analysis
- ☐ Multivariate/Statistical Analysis
- ☐ Radar Geocoding & Analysis
- ☐ Principal Components Analysis
- ☐ Density Slicing
- ☐ Unsupervised Classification

**30. Multi-user Capability:** ♦ Yes ♦ No

**31. Expert system capability:** ♦ Yes ♦ No

**32. Spatial index supported:** ♦ Yes ♦ No

**33. Object Oriented Architecture:** ♦ Yes ♦ No

**Please describe additional features:** Xcable is a network planning and management software for electric utility networks. All functionality is graphics-oriented, for example, modelling and planning of the network structure. All the data is stored in a relational database.